

FIG. 1

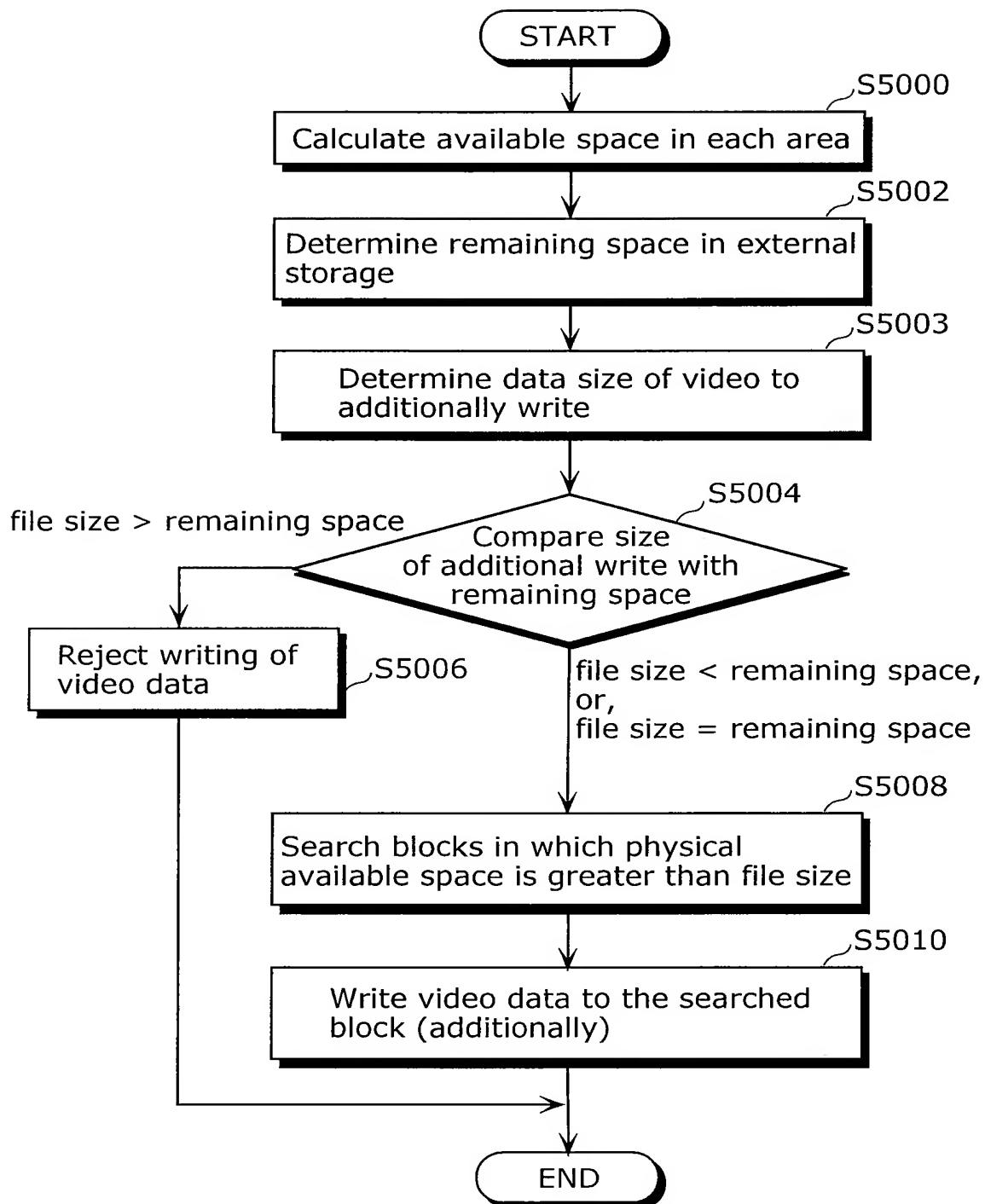


FIG. 2

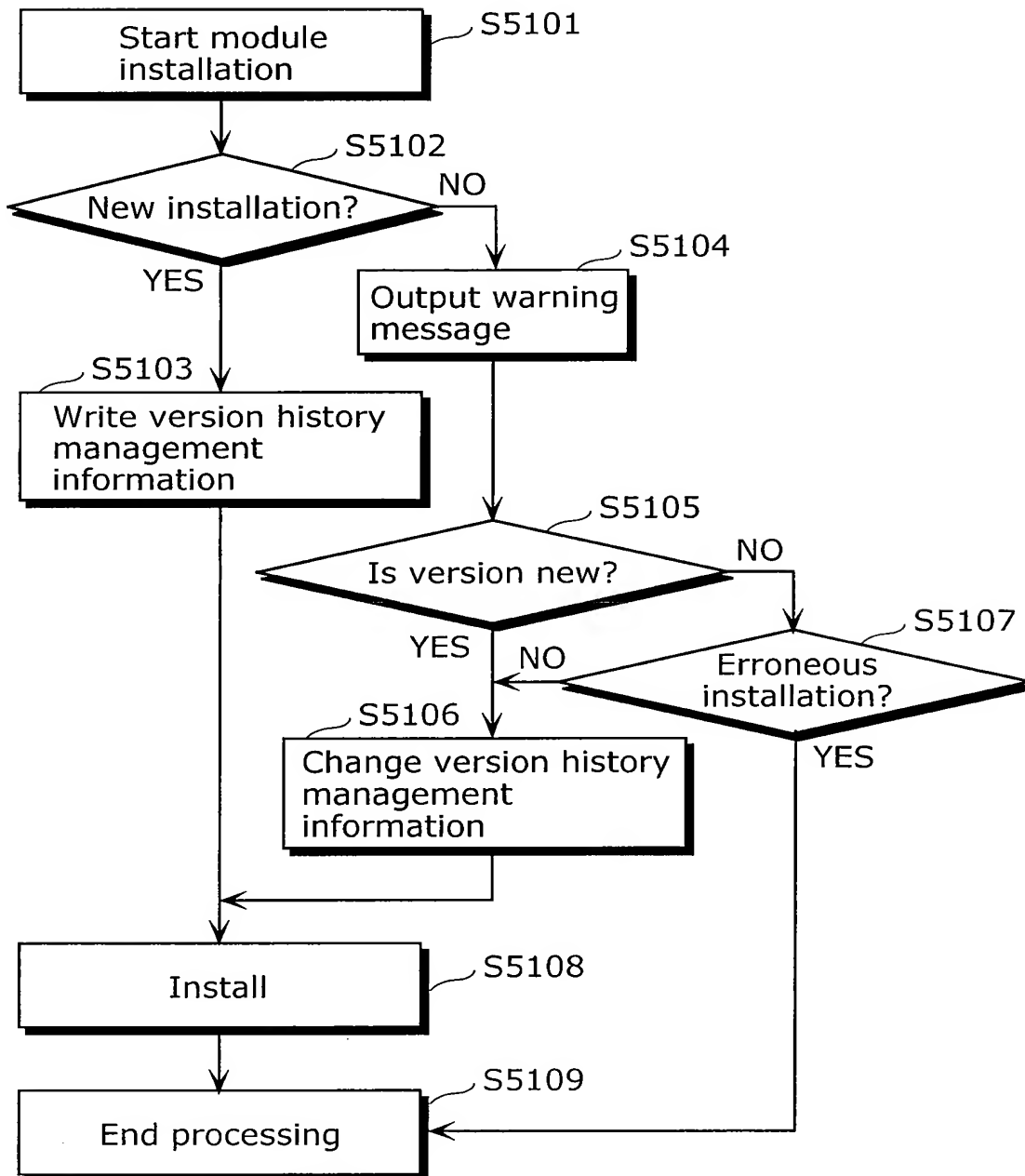


FIG. 3

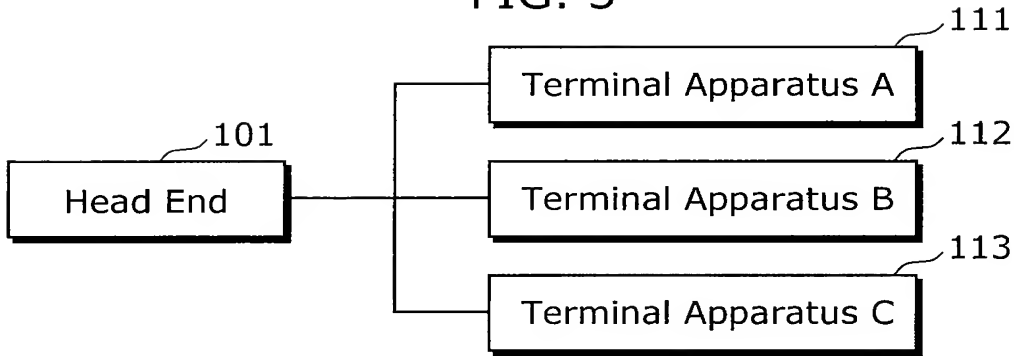


FIG. 4

Frequency	Use	Modulation Type
5~130MHz	Out Of Band (OOB) Data exchange between head end and terminal apparatus	QPSK
130~864MHz	In-band Normal TV broadcast that includes video/audio	QAM

FIG. 5

Frequency	Use
70~74MHz	Sending data from head end 101 to terminal apparatuses
10.0~10.1MHz	Sending data from terminal apparatus A111 to head end 101
10.1~10.2MHz	Sending data from terminal apparatus B112 to head end 101
10.2~10.3MHz	Sending data from terminal apparatus C113 to head end 101

FIG. 6

Frequency	Use
150~156MHz	TV channel 1
156~162MHz	TV channel 2
⋮	⋮
310~311MHz	Radio channel 2
⋮	⋮

FIG. 7

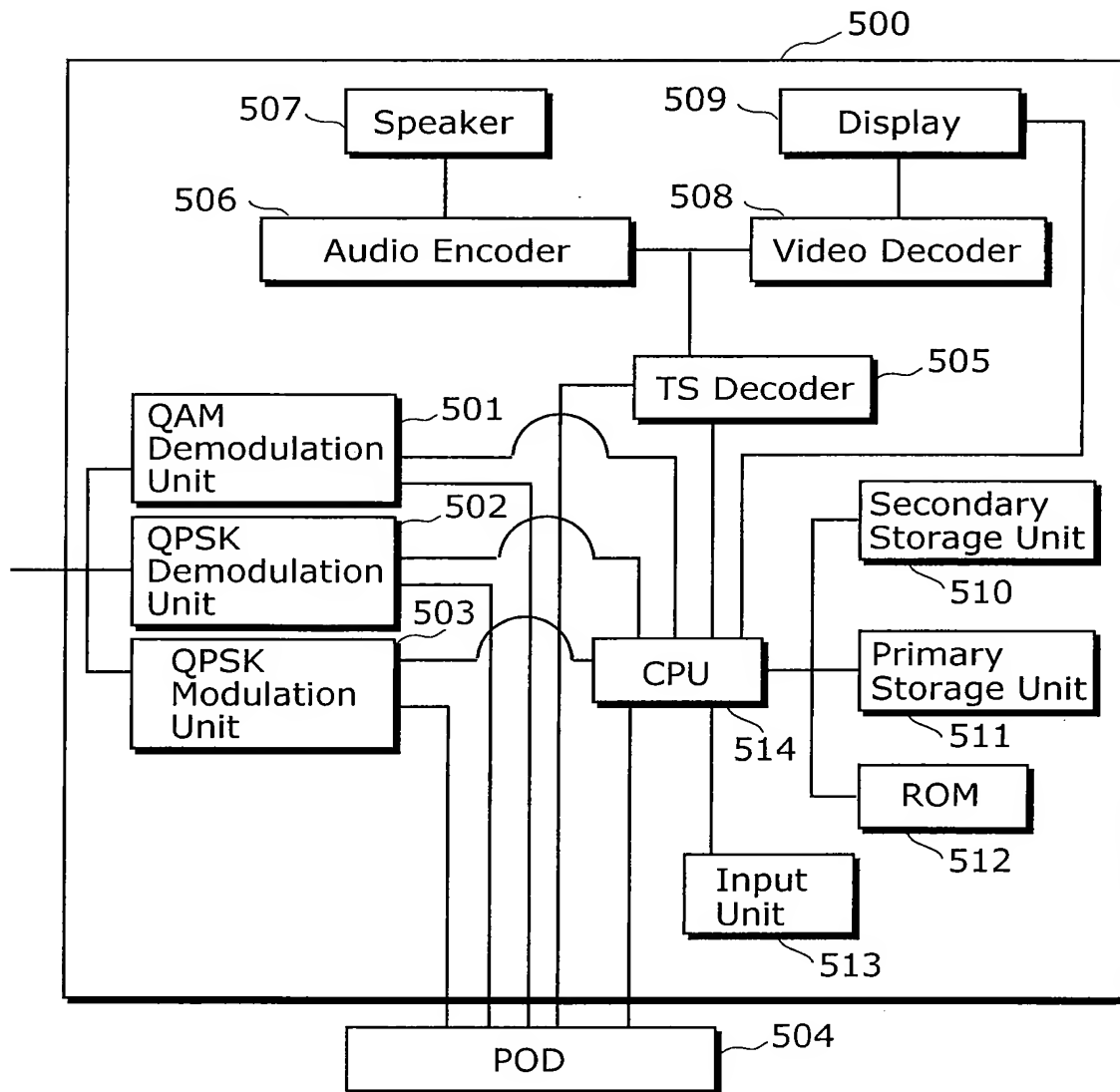


FIG. 8

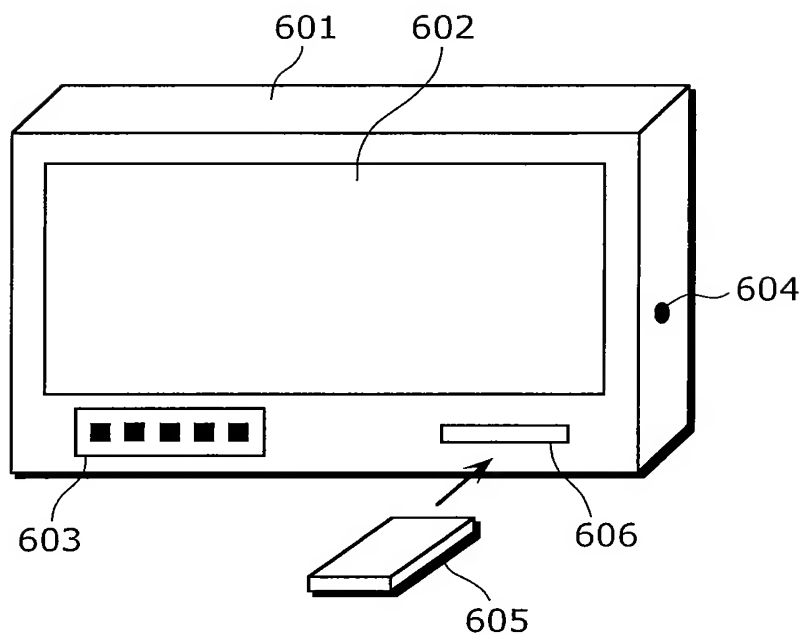


FIG. 9

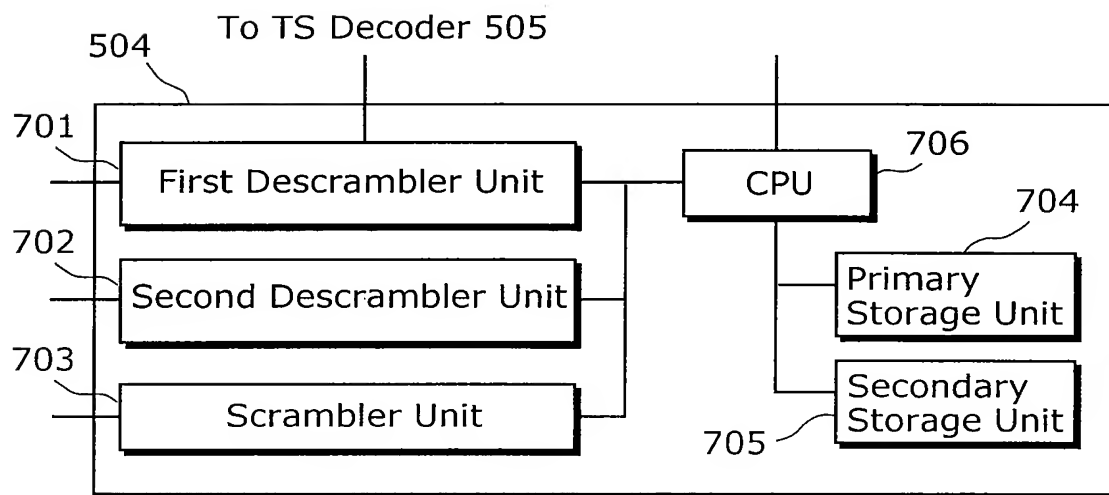


FIG. 10

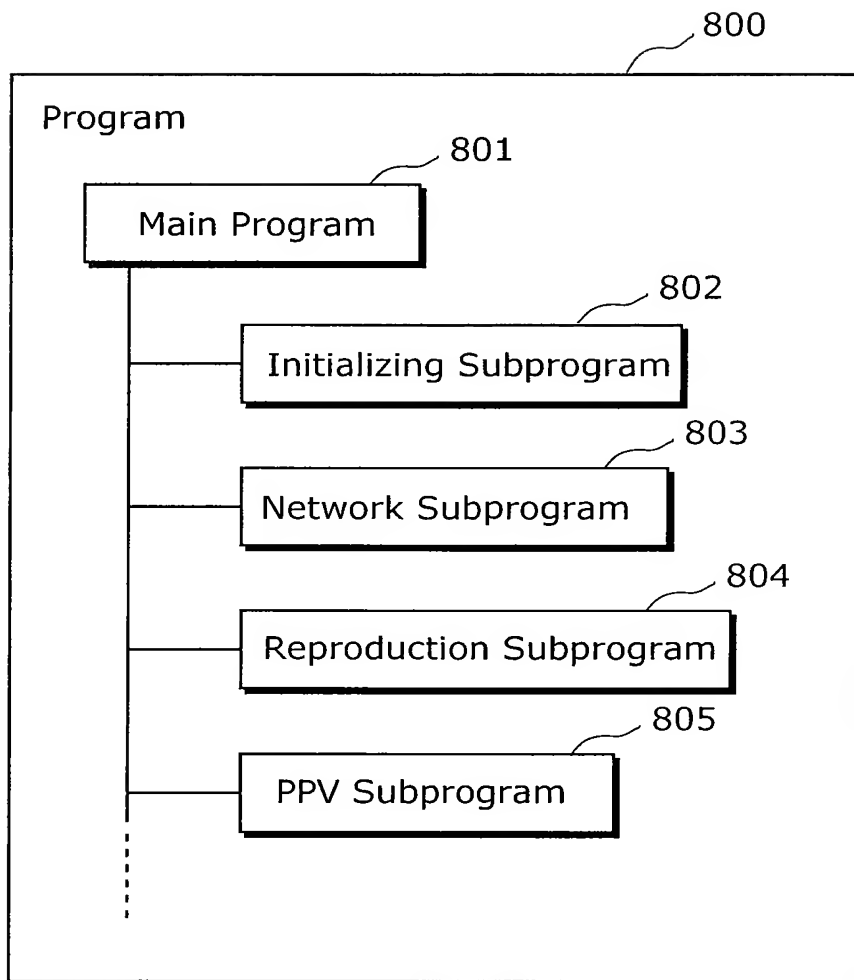


FIG. 11

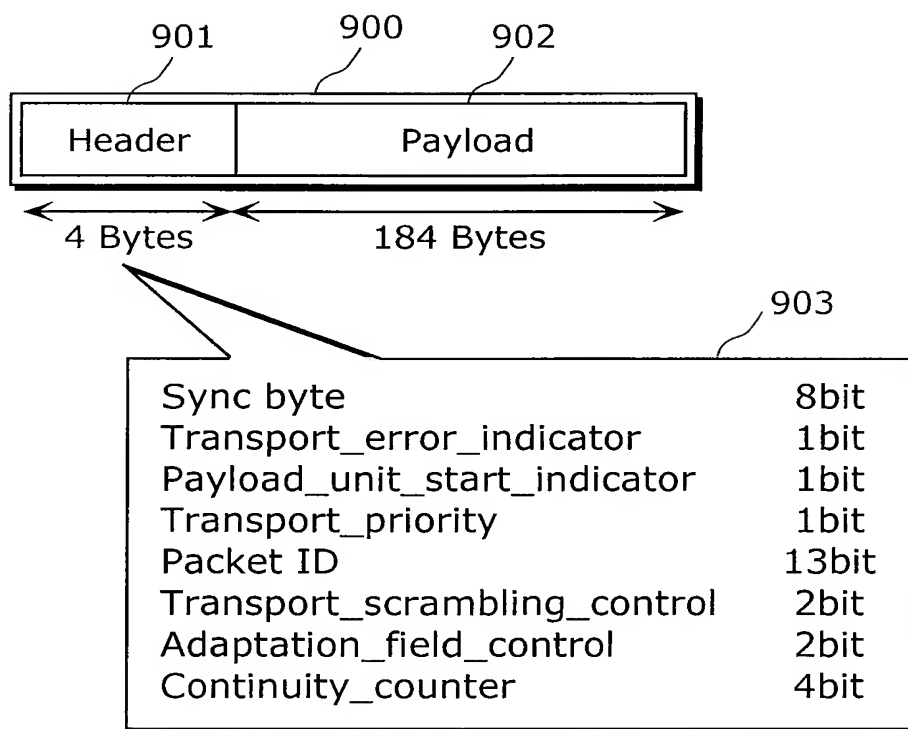




FIG. 12

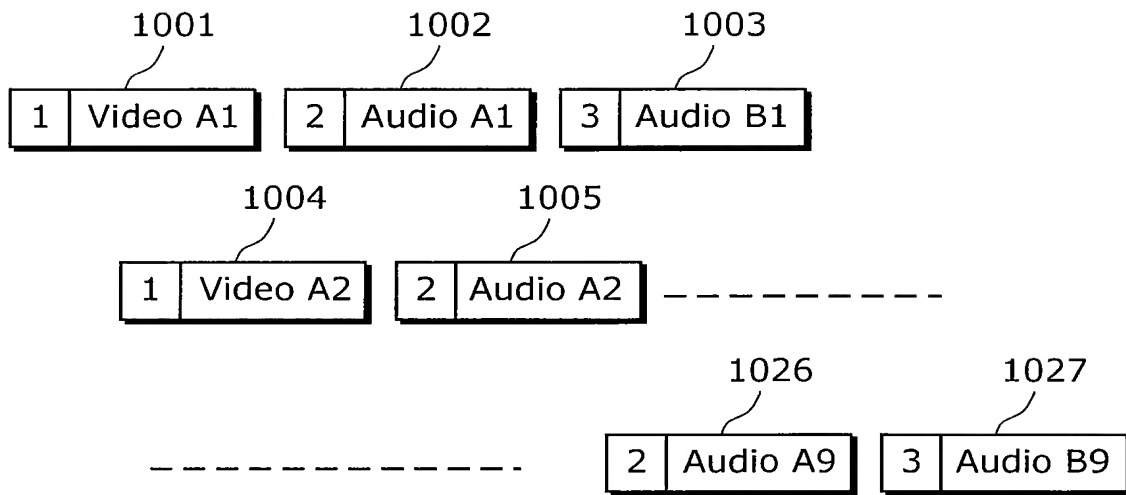


FIG. 13

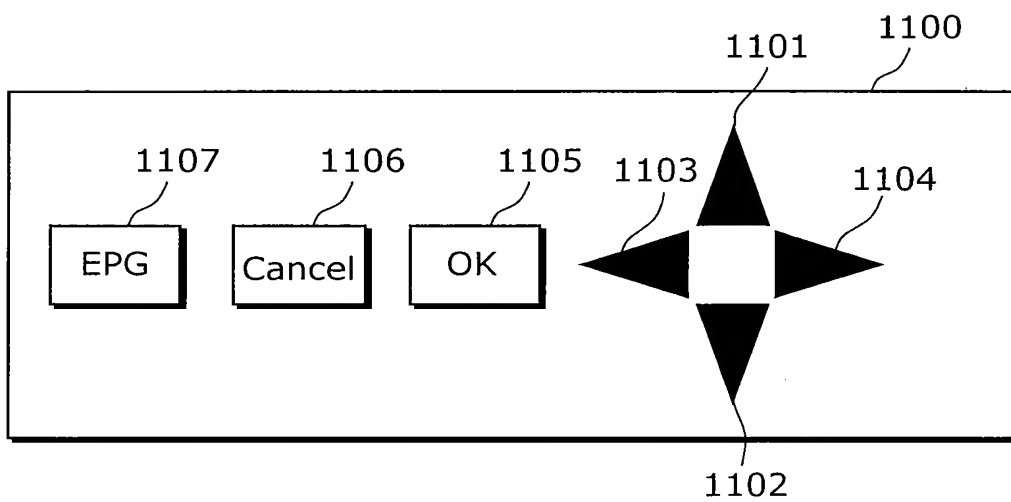


FIG. 14

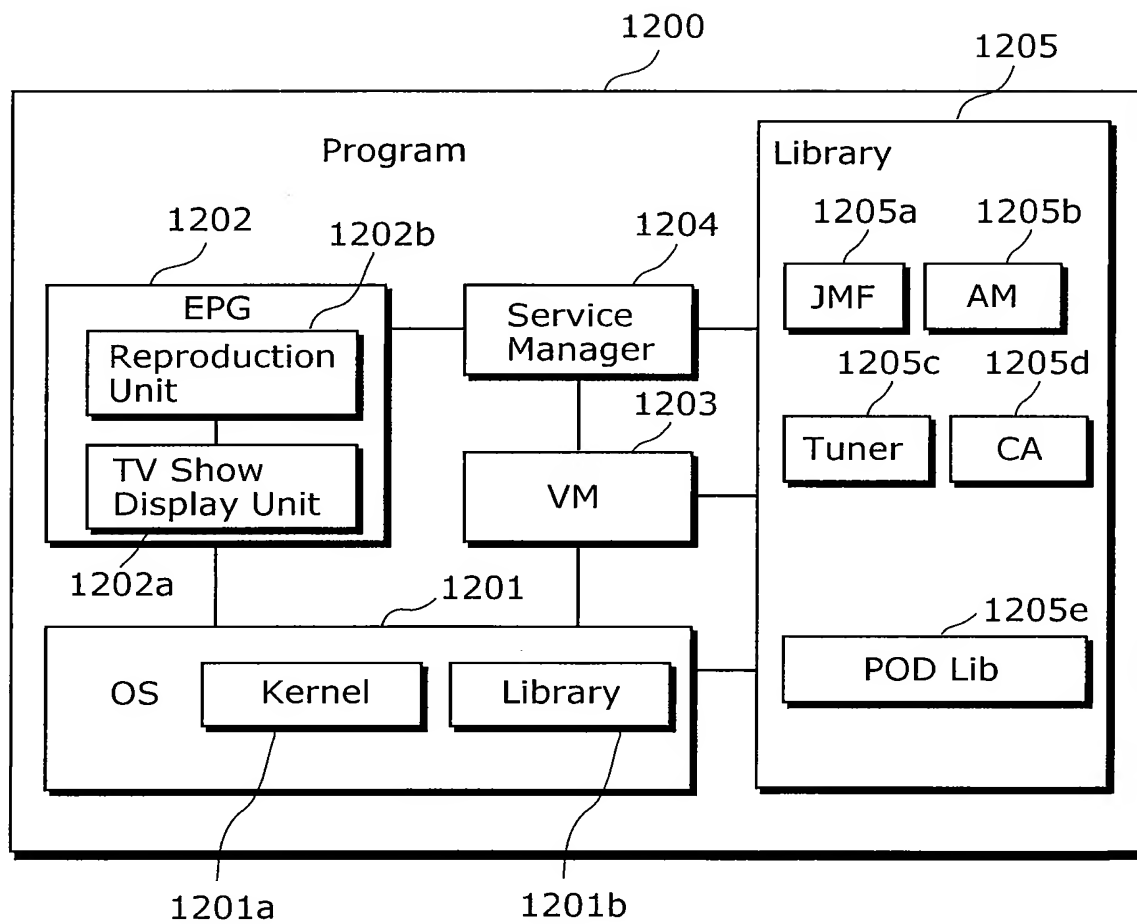


FIG. 15A

Time	Channel 1	Channel 2
9:00-10:00	News 9	Movie BBB
10:00-11:00		
11:00-12:00	Movie AAA	News 11

FIG. 15B

Time	Channel 1	Channel 2
9:00-10:00	News 9	Movie BBB
10:00-11:00		
11:00-12:00	Movie AAA	News 11

FIG. 16

1401	1402	1403	1404
1	Channel 1	150MHz,....	101
2	Channel 2	156MHz,....	102
3	TV3	216MHz,....	103
4	TV Japan	222MHz,....	104

FIG. 17A

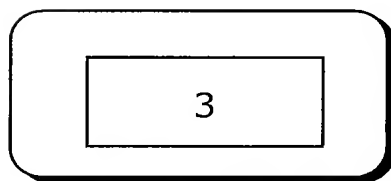


FIG. 17B

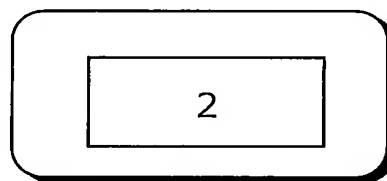


FIG. 17C

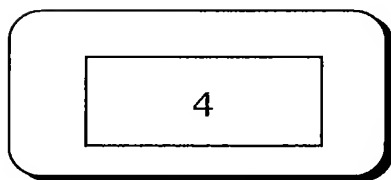


FIG. 18

	1601	1602
1611	101	501
1612	102	502
1613	103	503

FIG. 19

	1701	1702	1703
1711	Audio	5011	
1712	Video	5012	
1713	Data	5013	AIT
1714	Data	5014	DSMCC[1]

FIG. 20

	1801	1802	1803	1804
1811	301	autostart	1	/a/TopXlet
1812	302	present	1	/b/GameXlet

FIG. 21

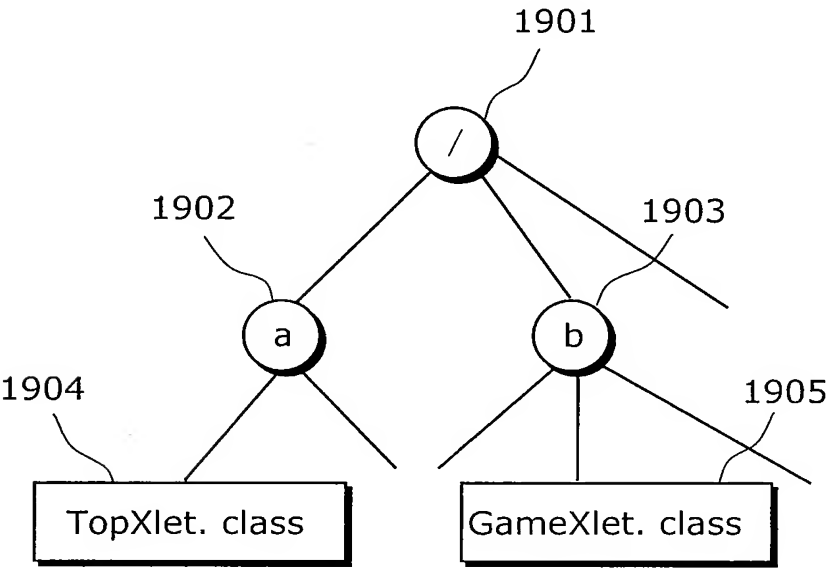


FIG. 22

	2001	2002	2003	2004	2005	2006	2007
2011	701	autostart	1	/a/APP1Xlet	200	100	APP1
2012	702	present	1	/b/APP2Xlet	201	200	APP2

FIG. 23

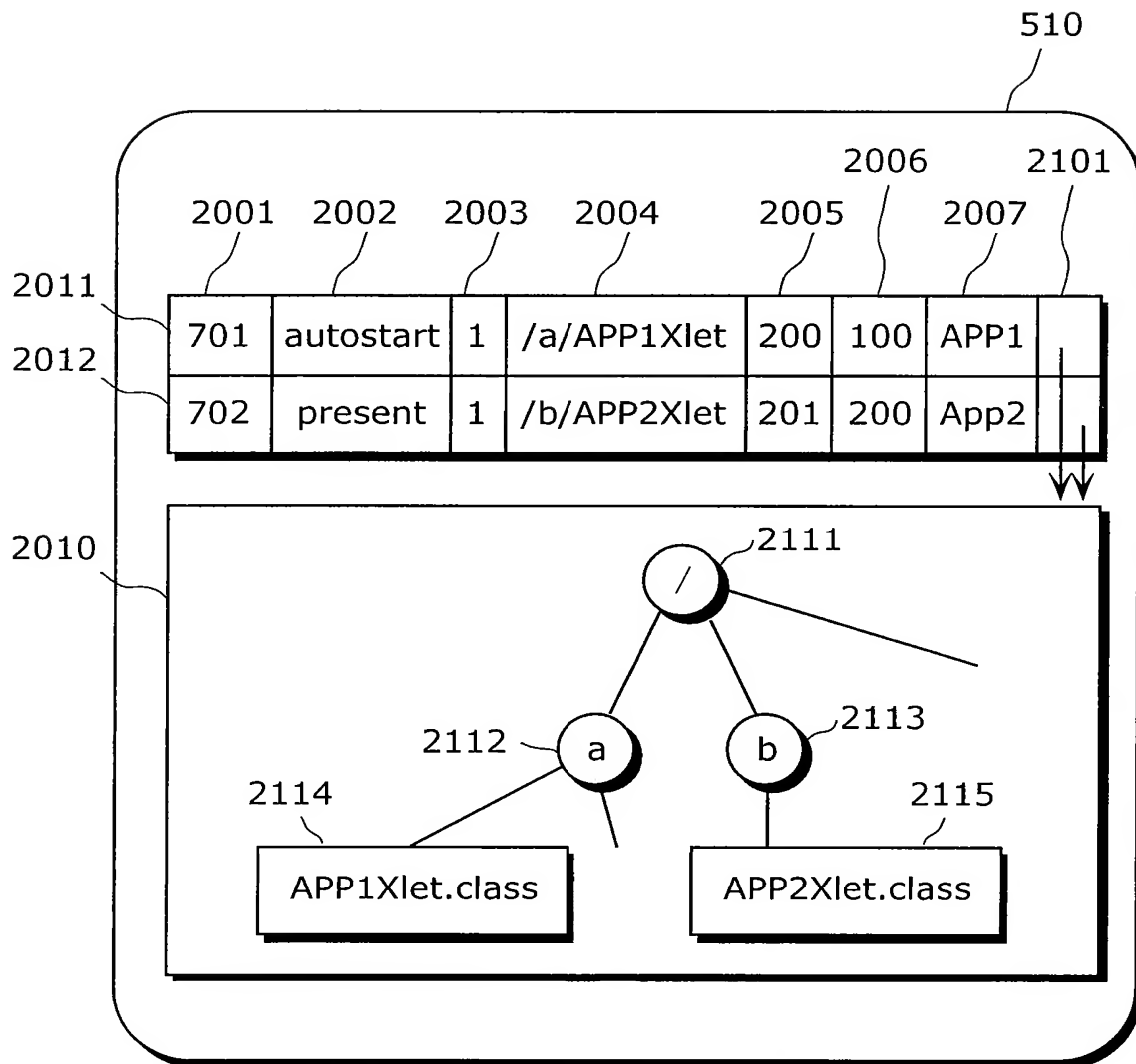




FIG. 24

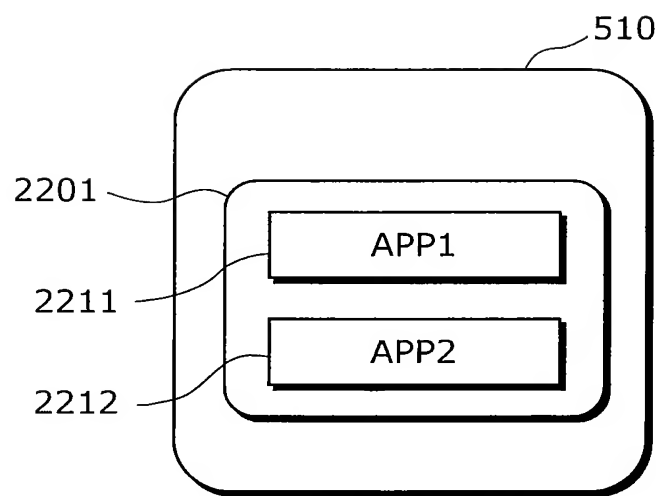


FIG. 25

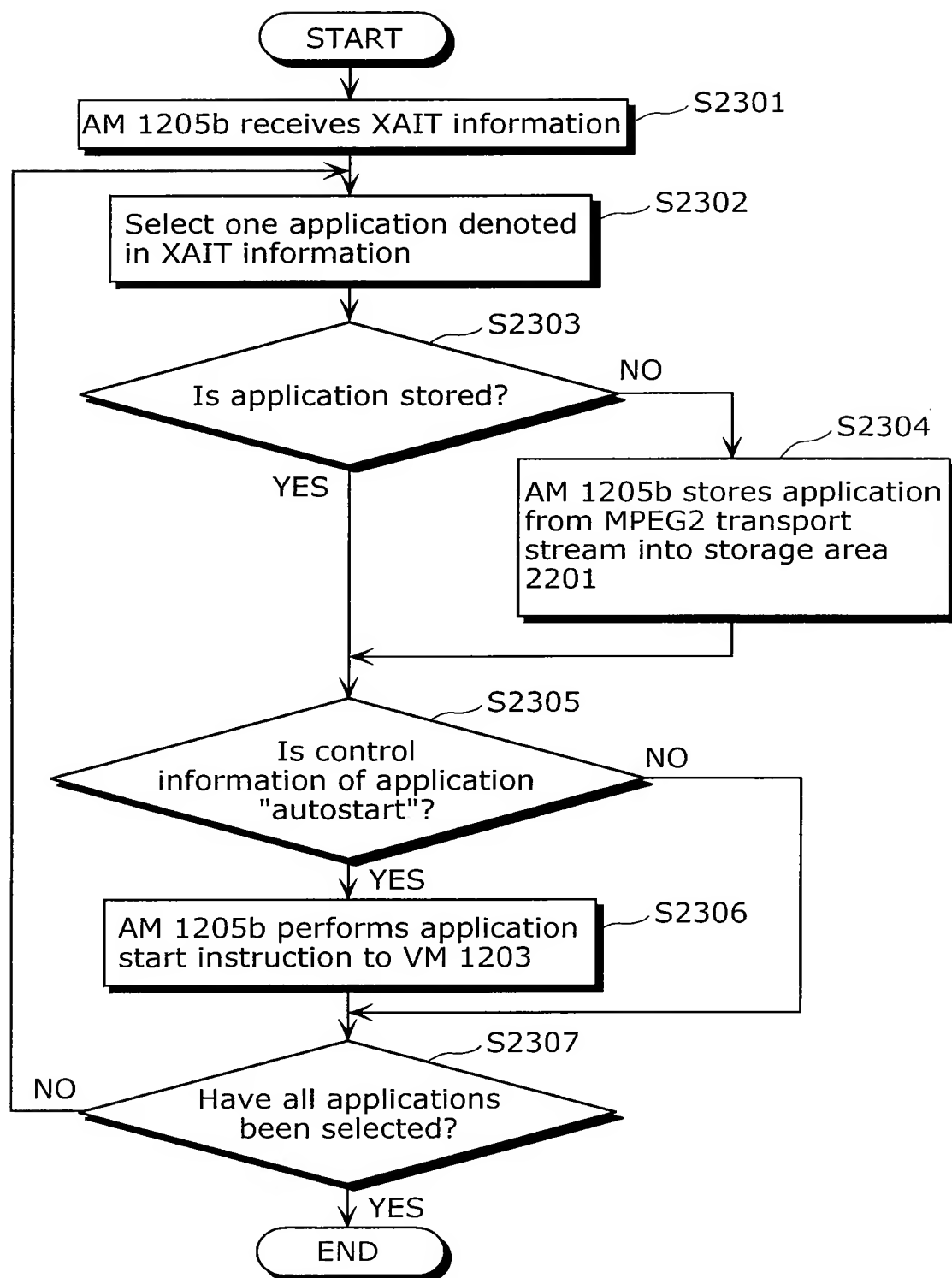


FIG. 26

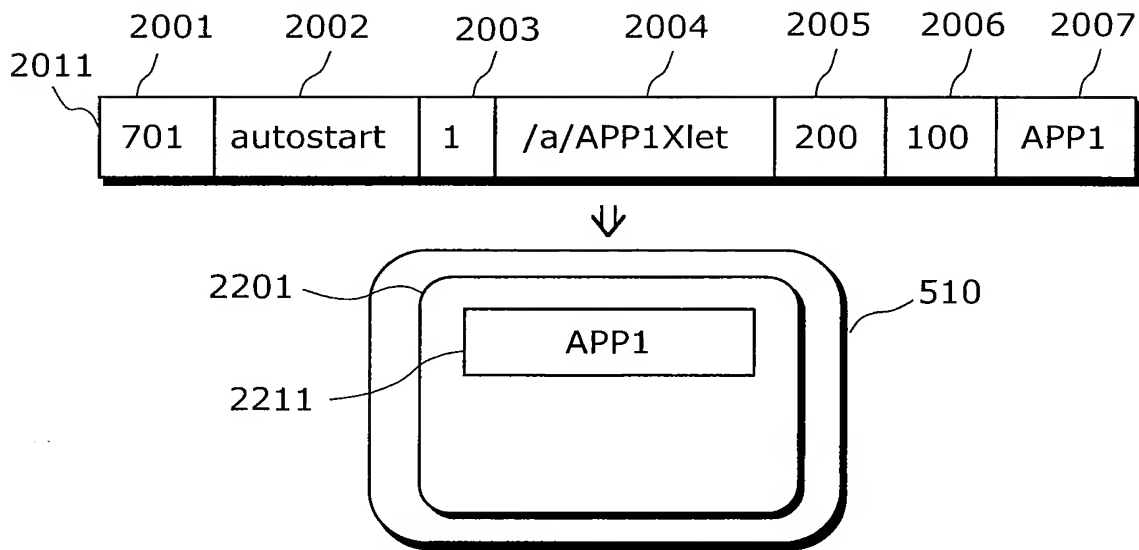


FIG. 27

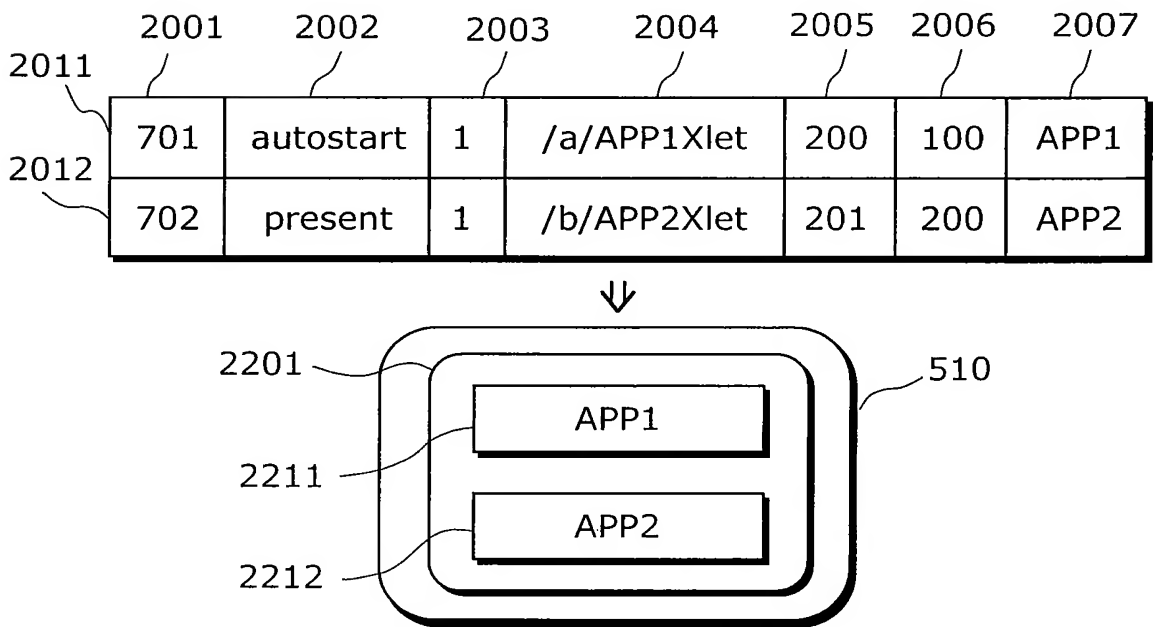


FIG. 28

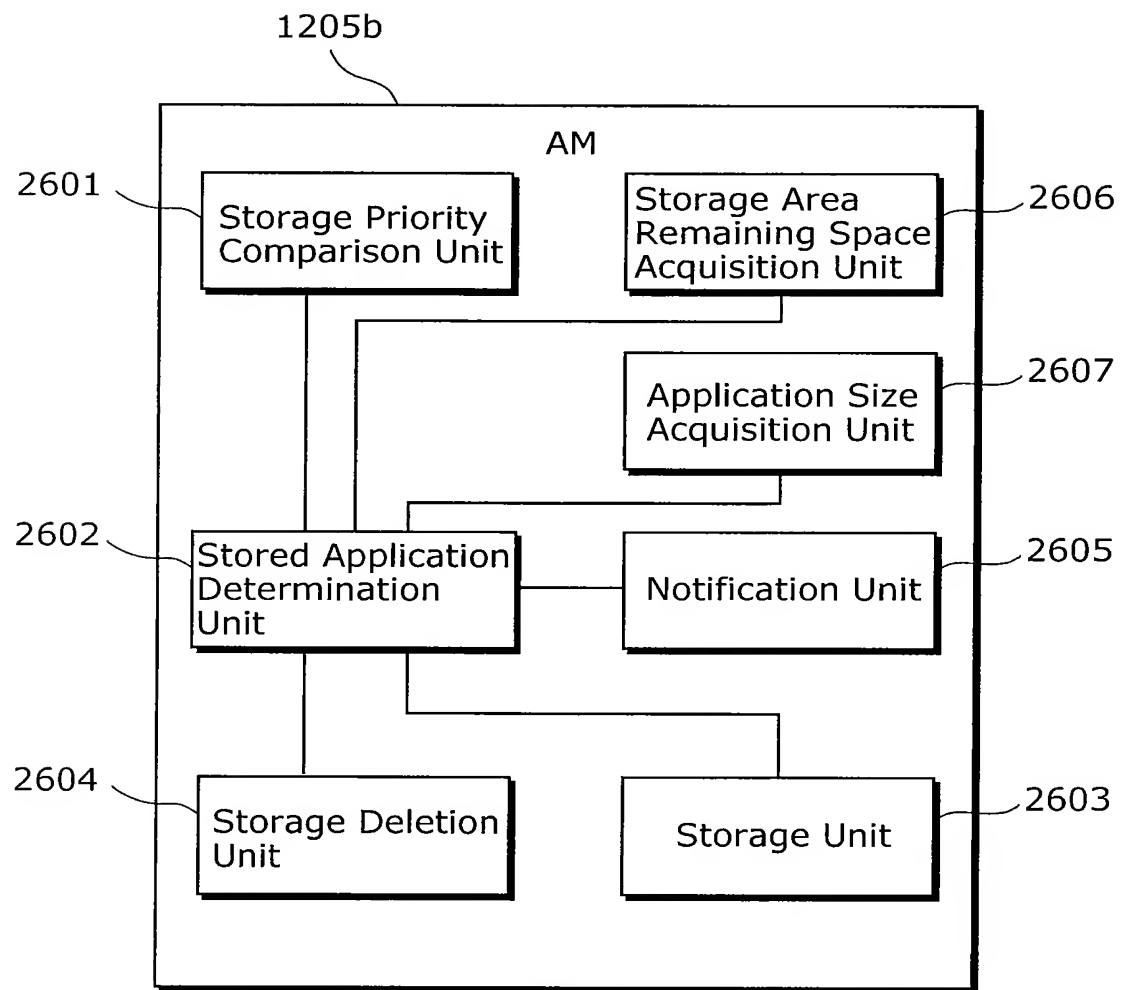


FIG. 29

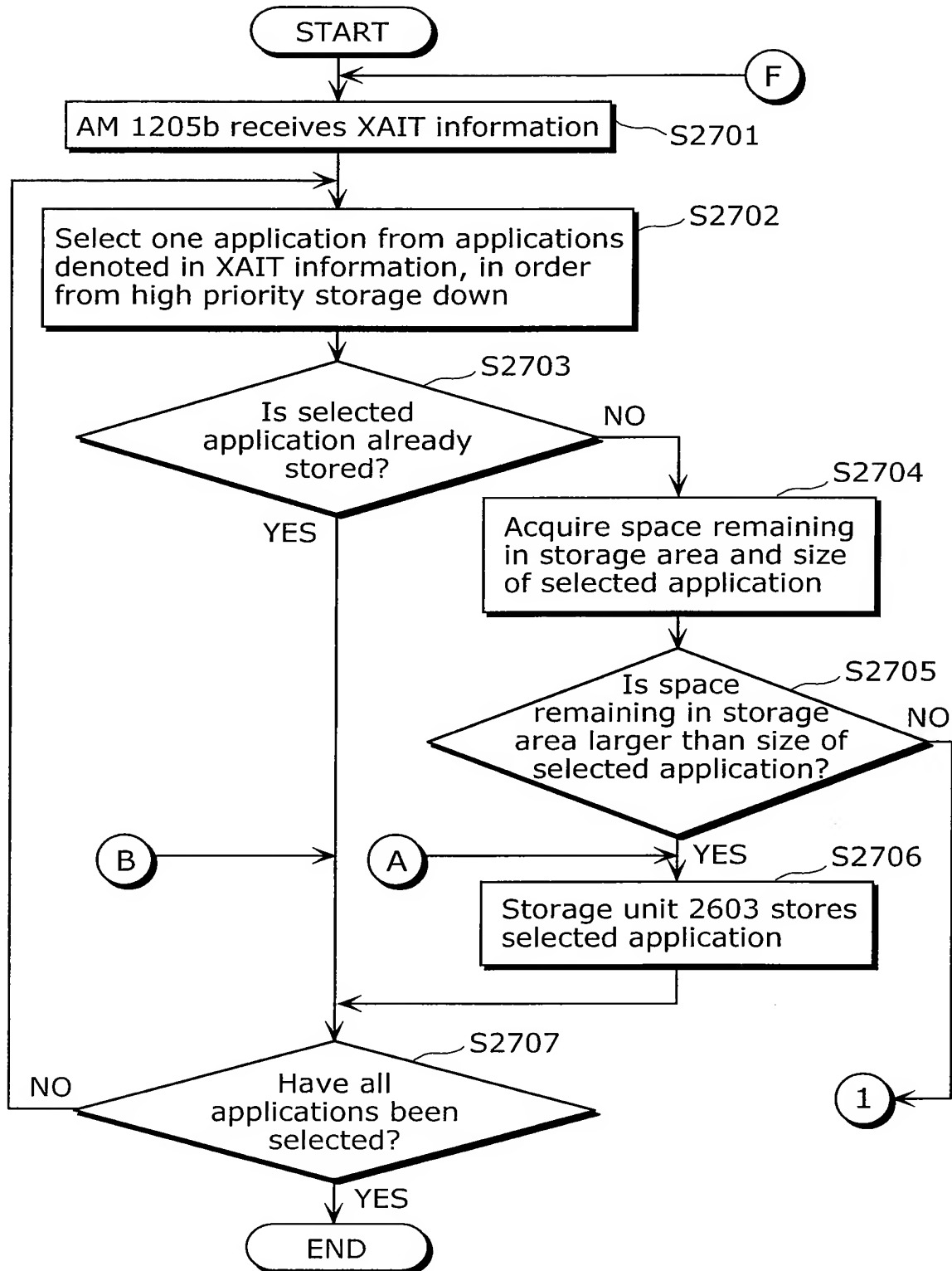


FIG. 30

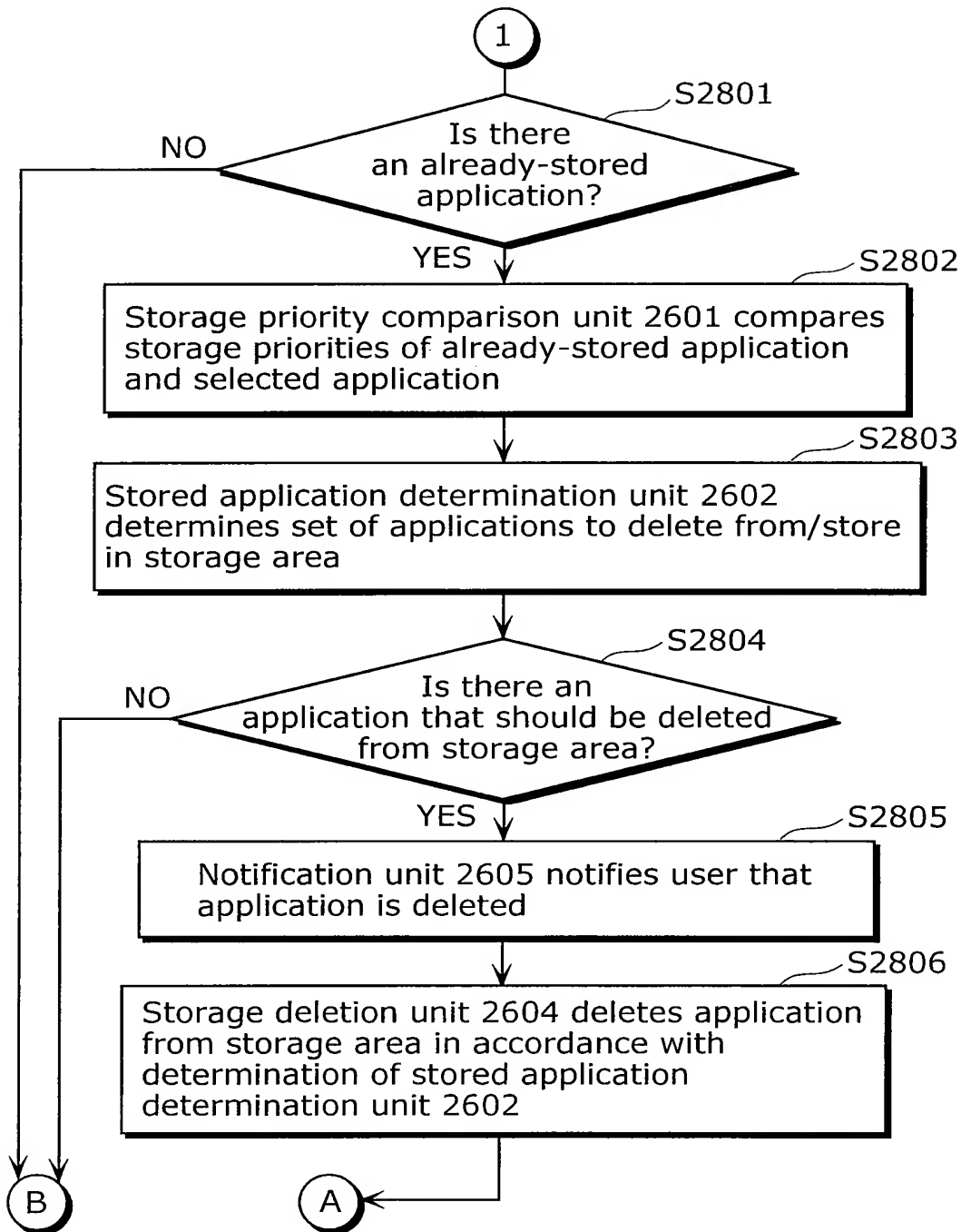


FIG. 31

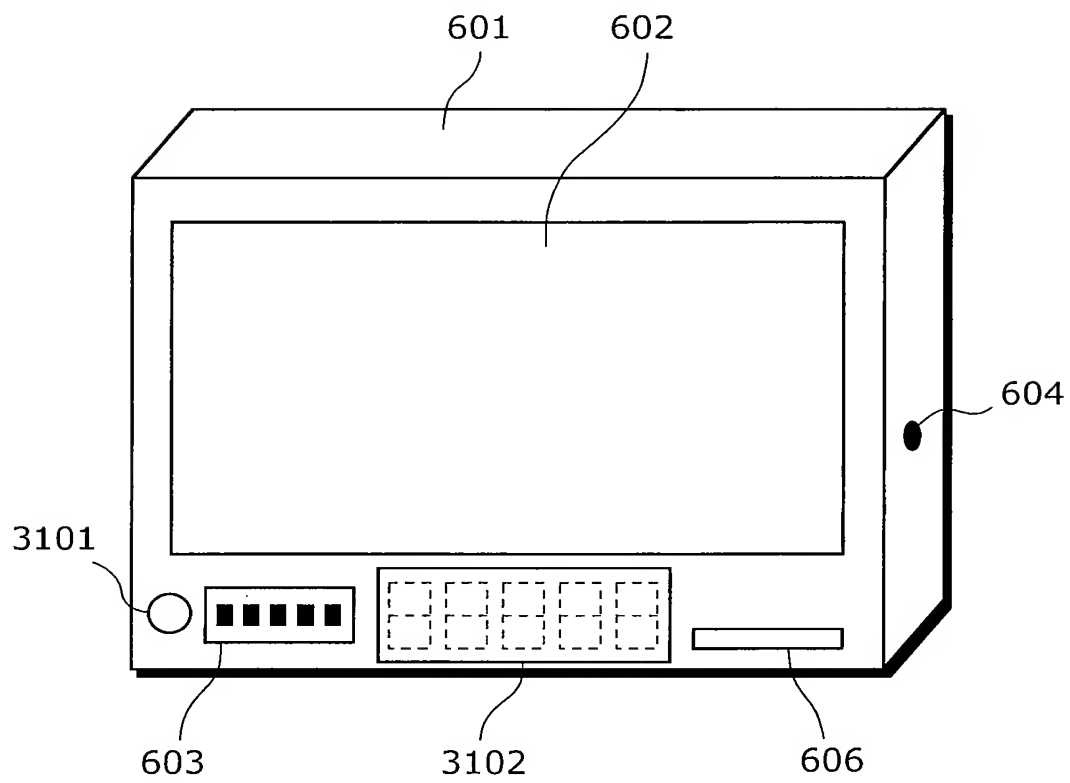


FIG. 32

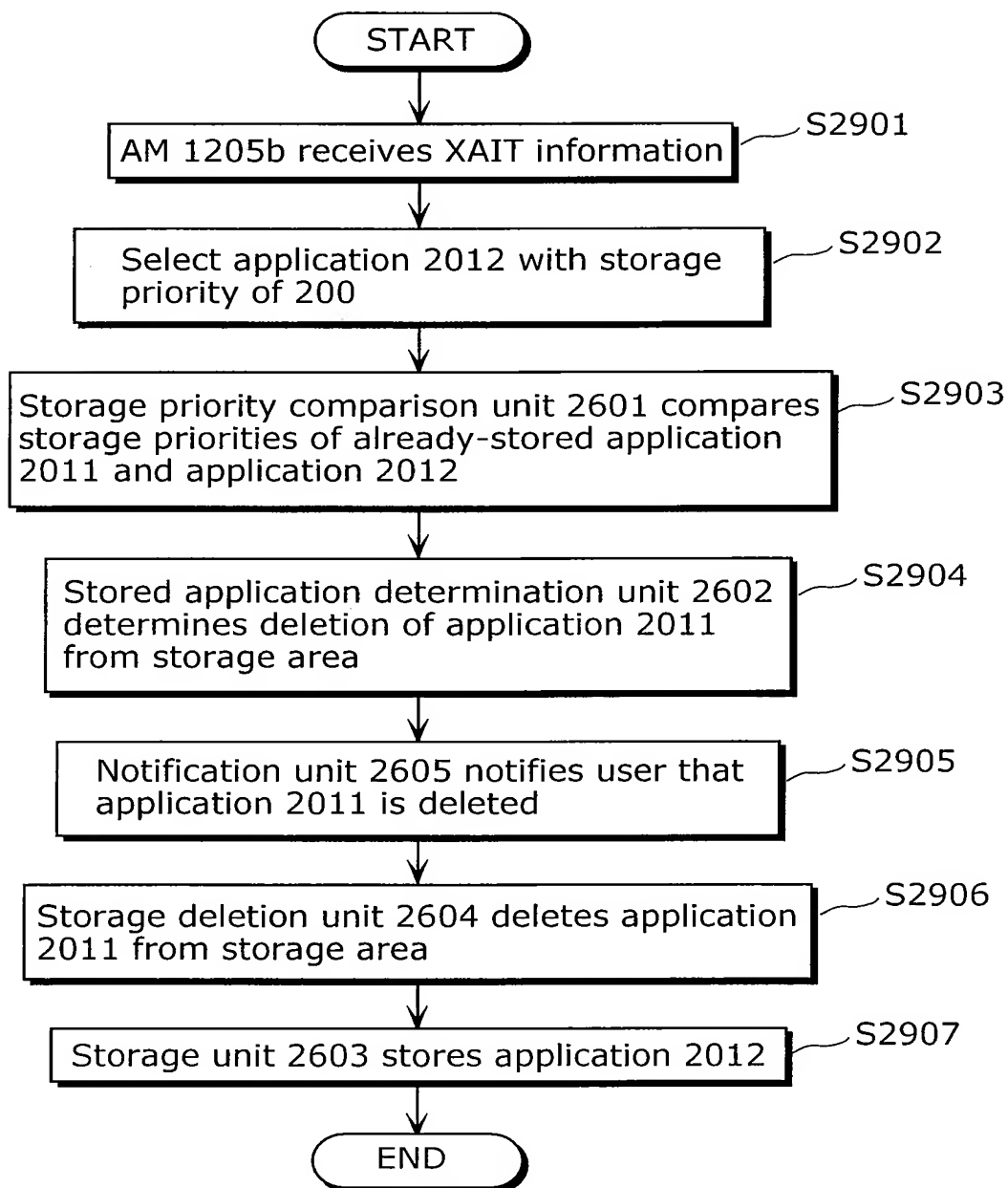




FIG. 33

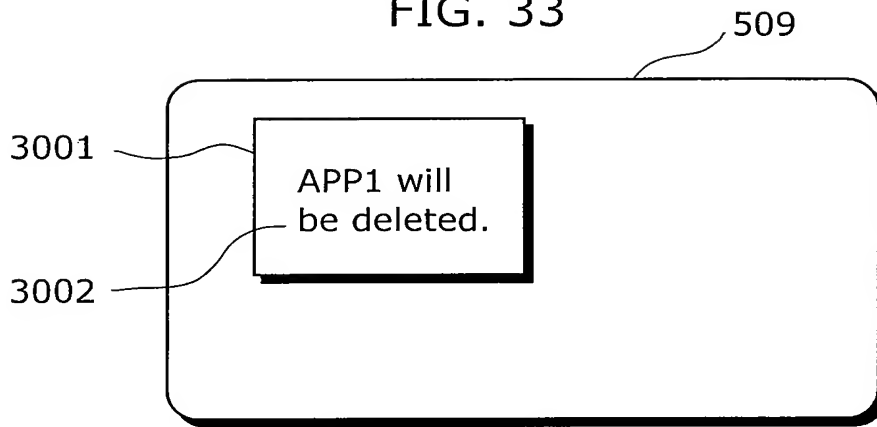


FIG. 34A

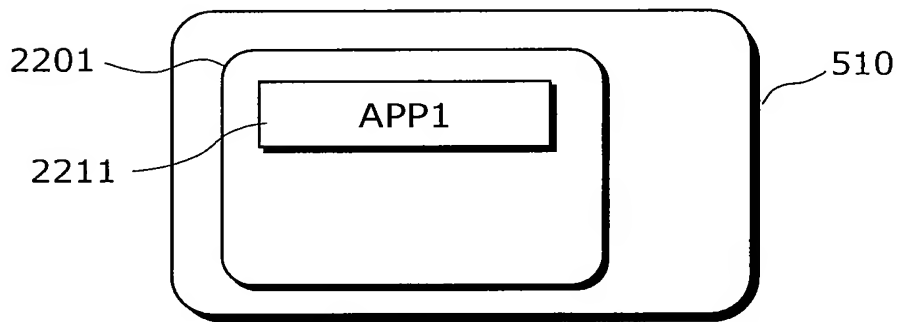


FIG. 34B

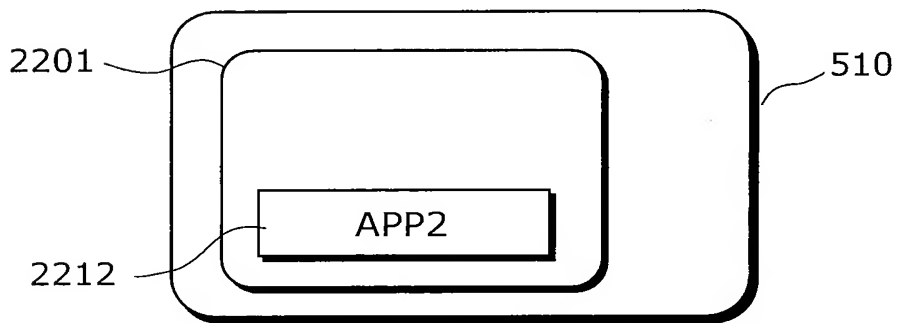


FIG. 35A

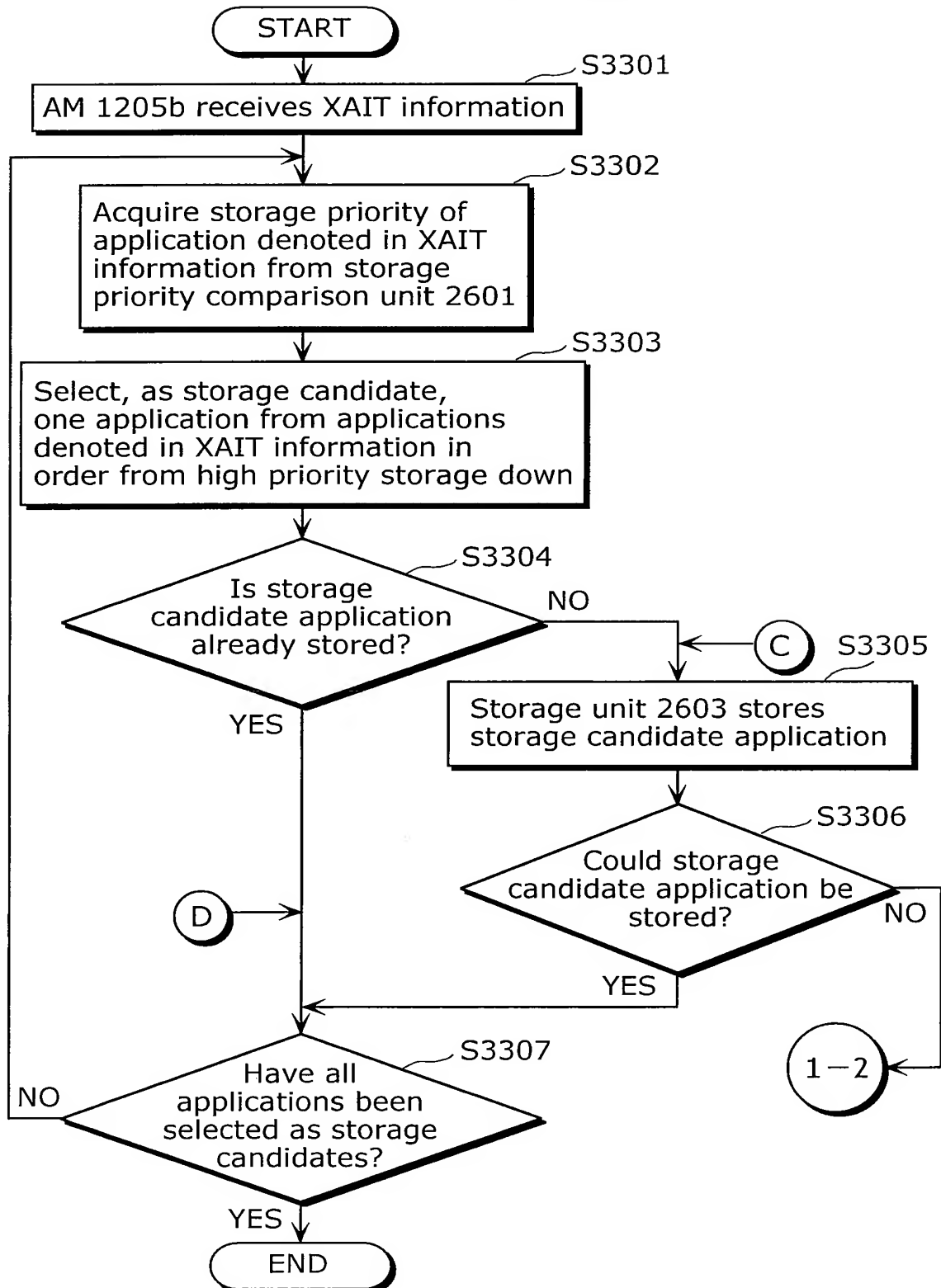


FIG. 35B

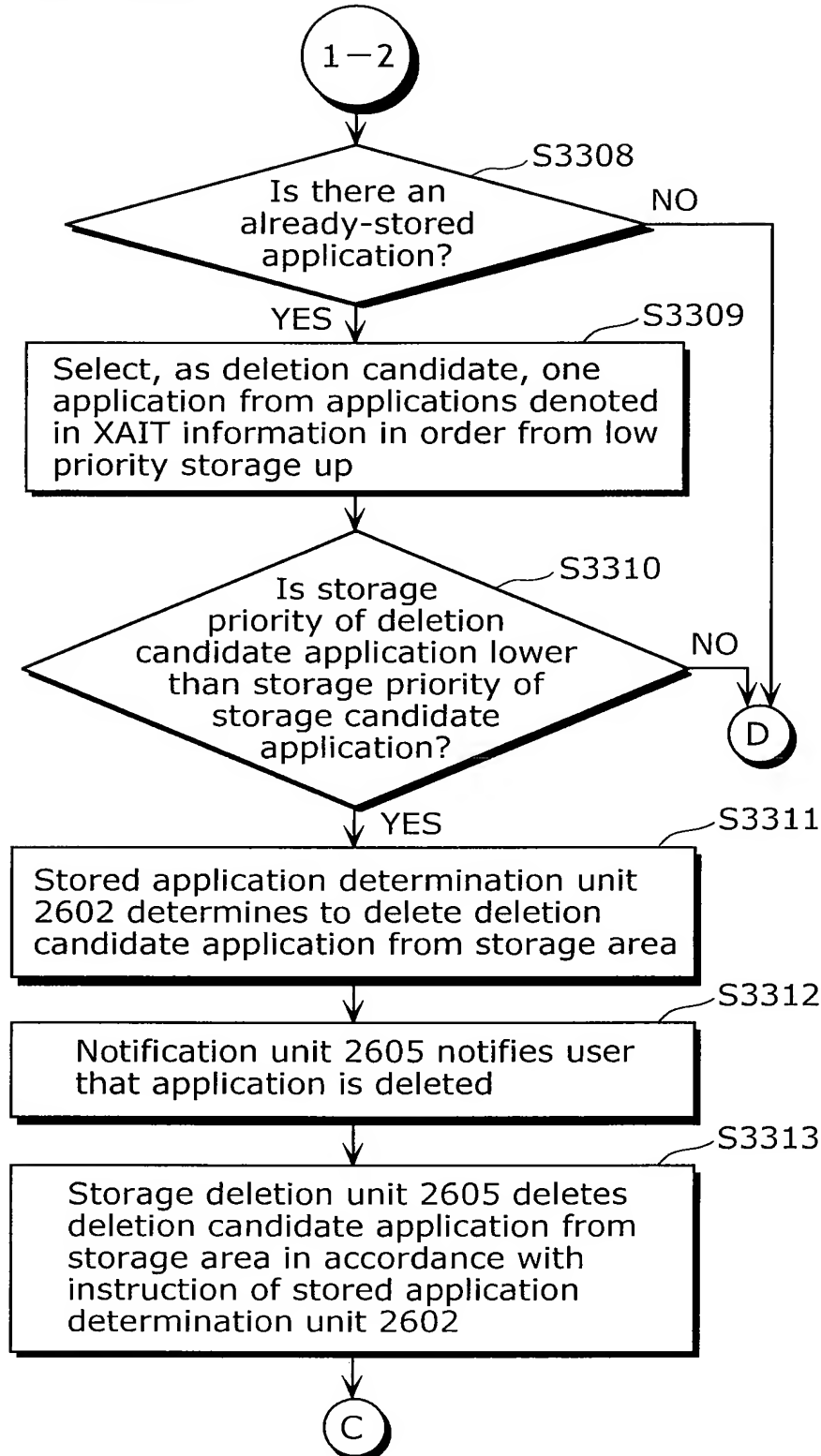


FIG. 36

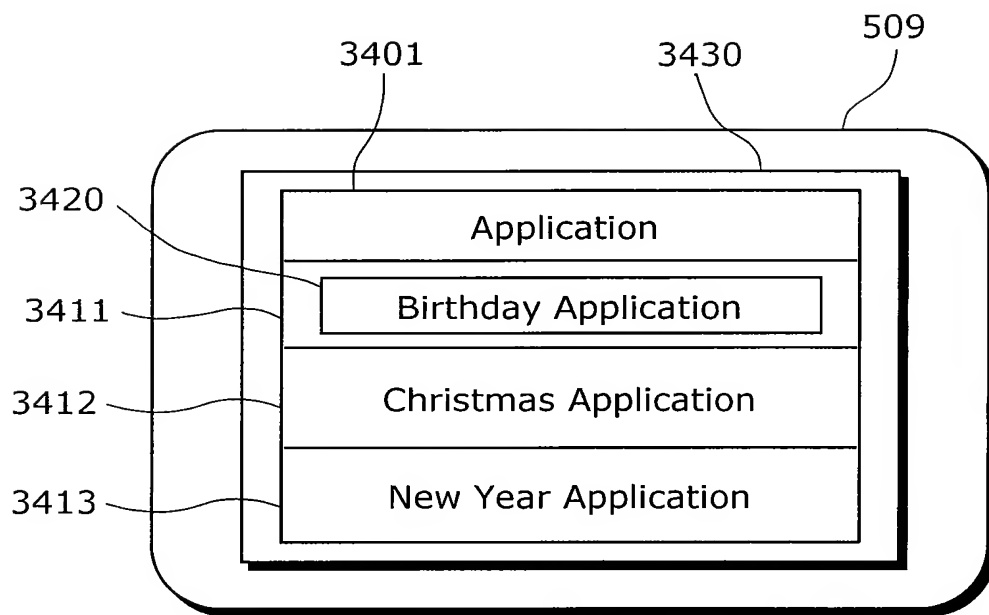


FIG. 37

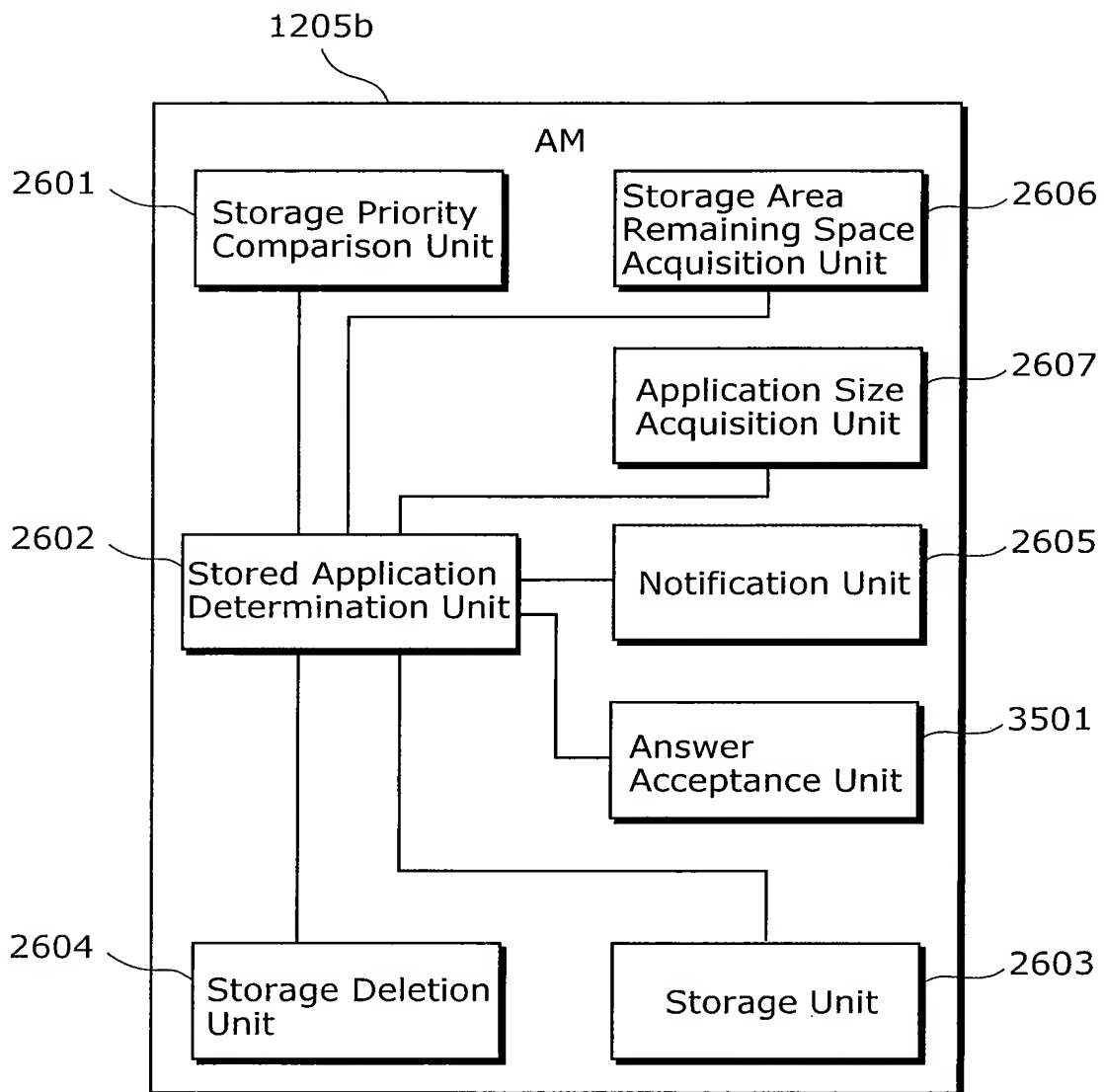


FIG. 38

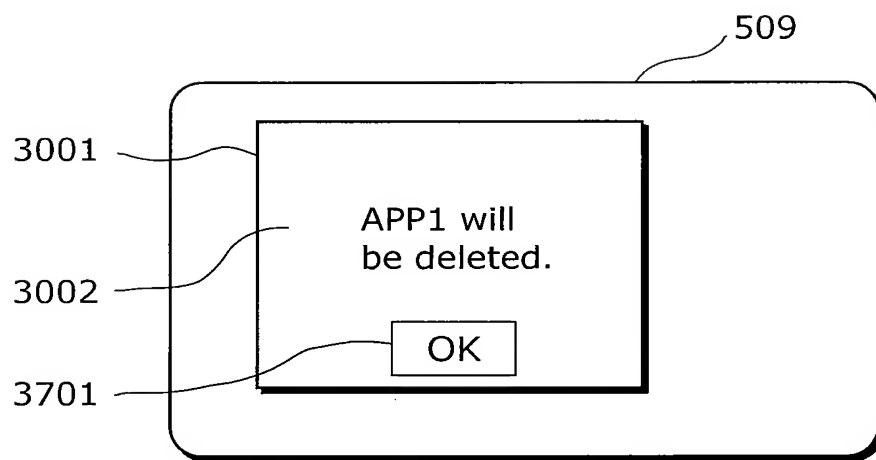


FIG. 39

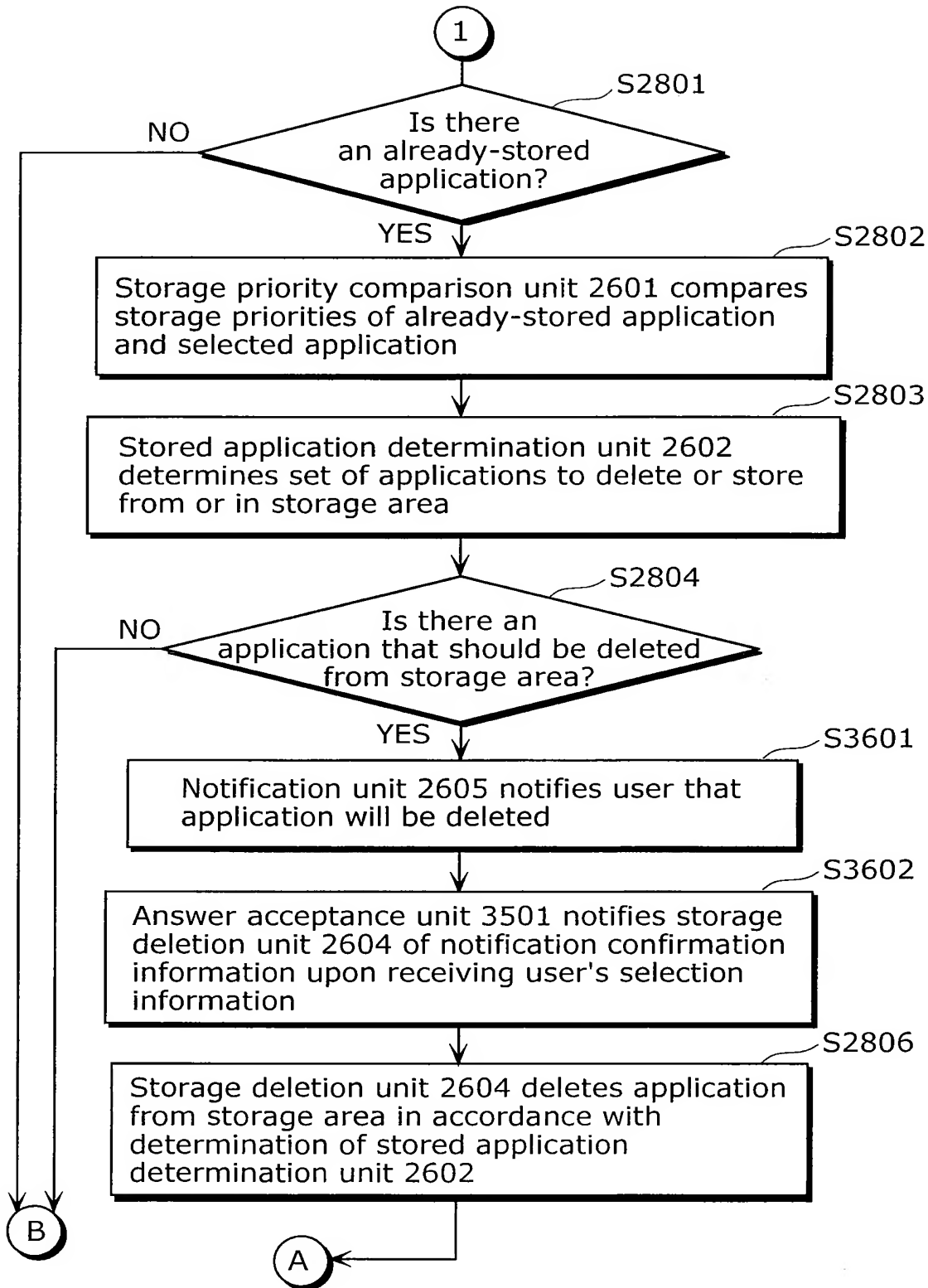


FIG. 40

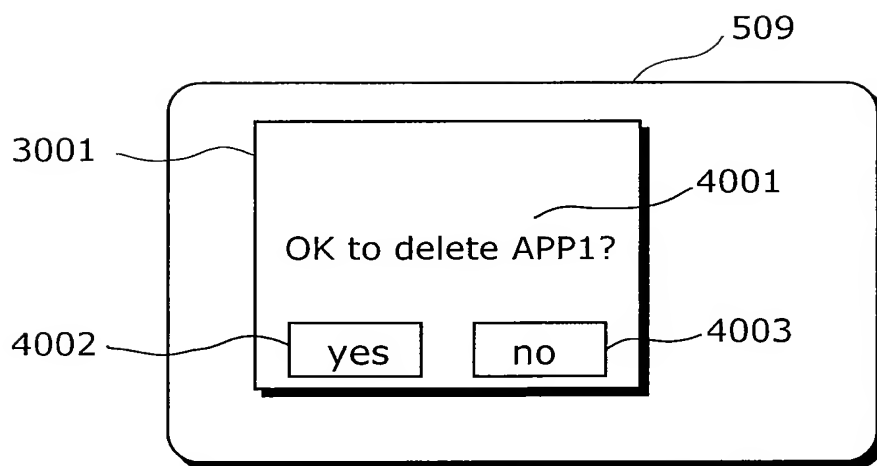




FIG. 41

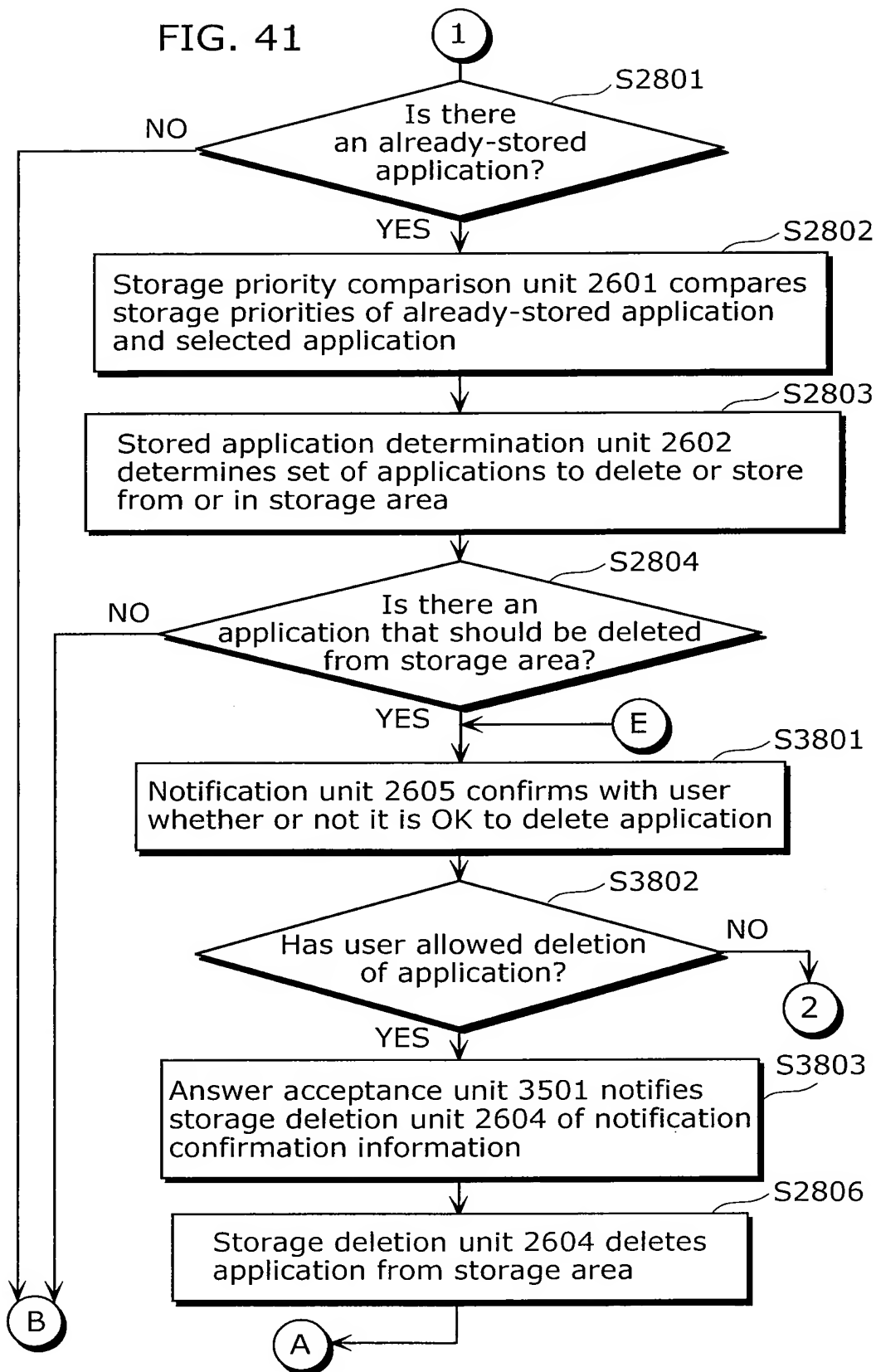


FIG. 42

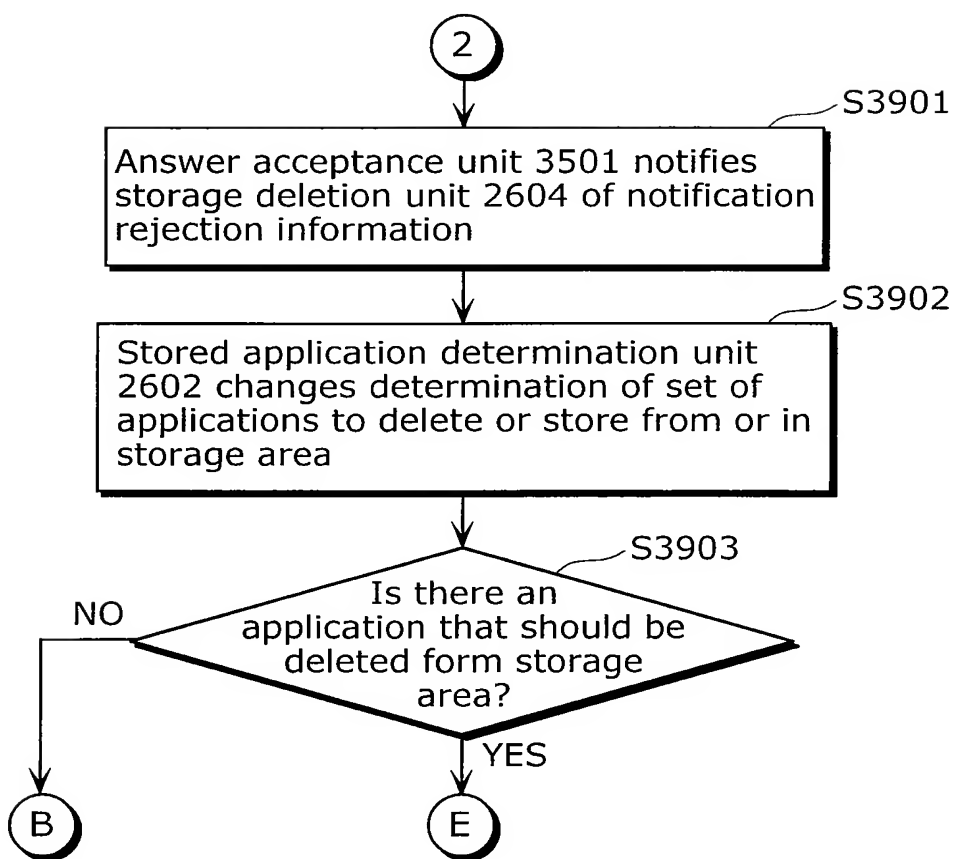


FIG. 43

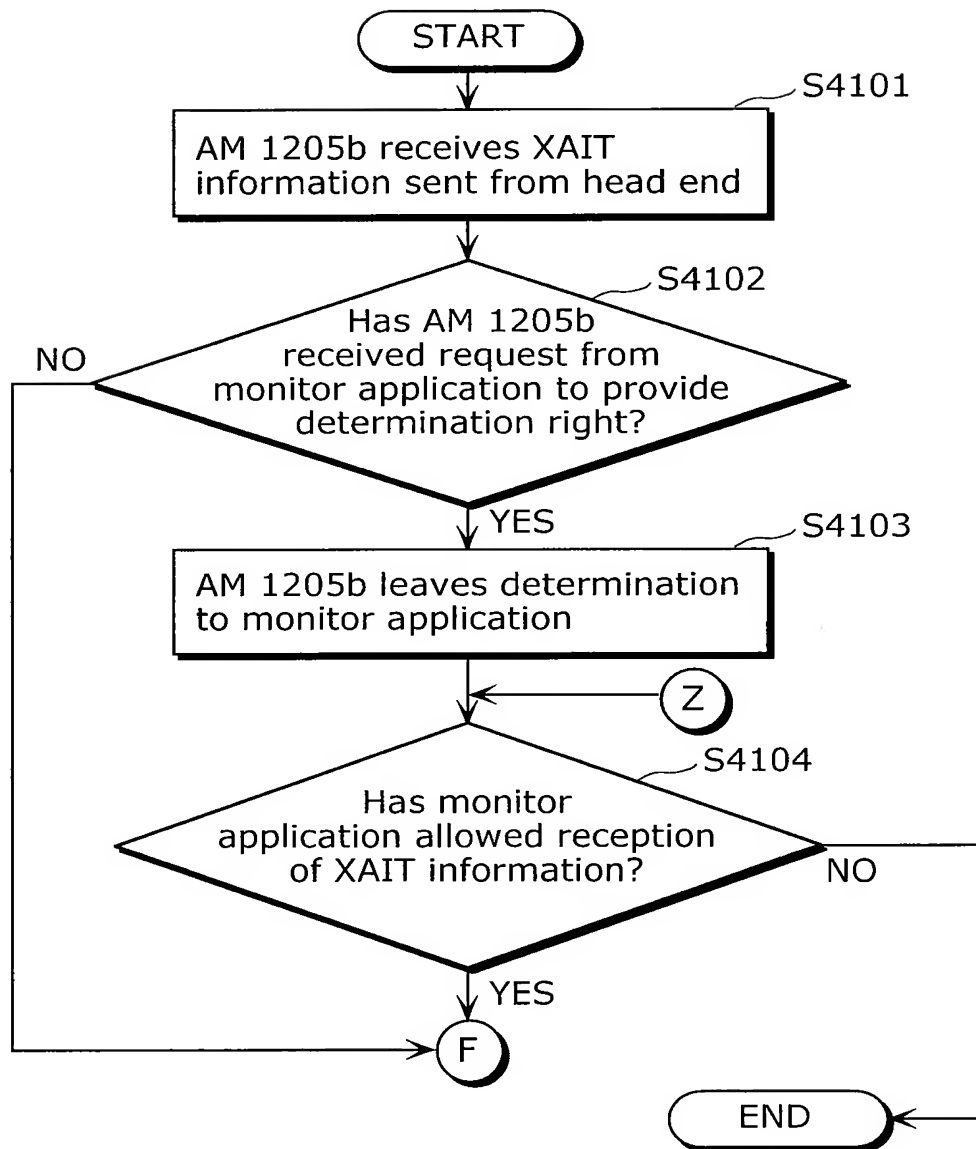


FIG. 44

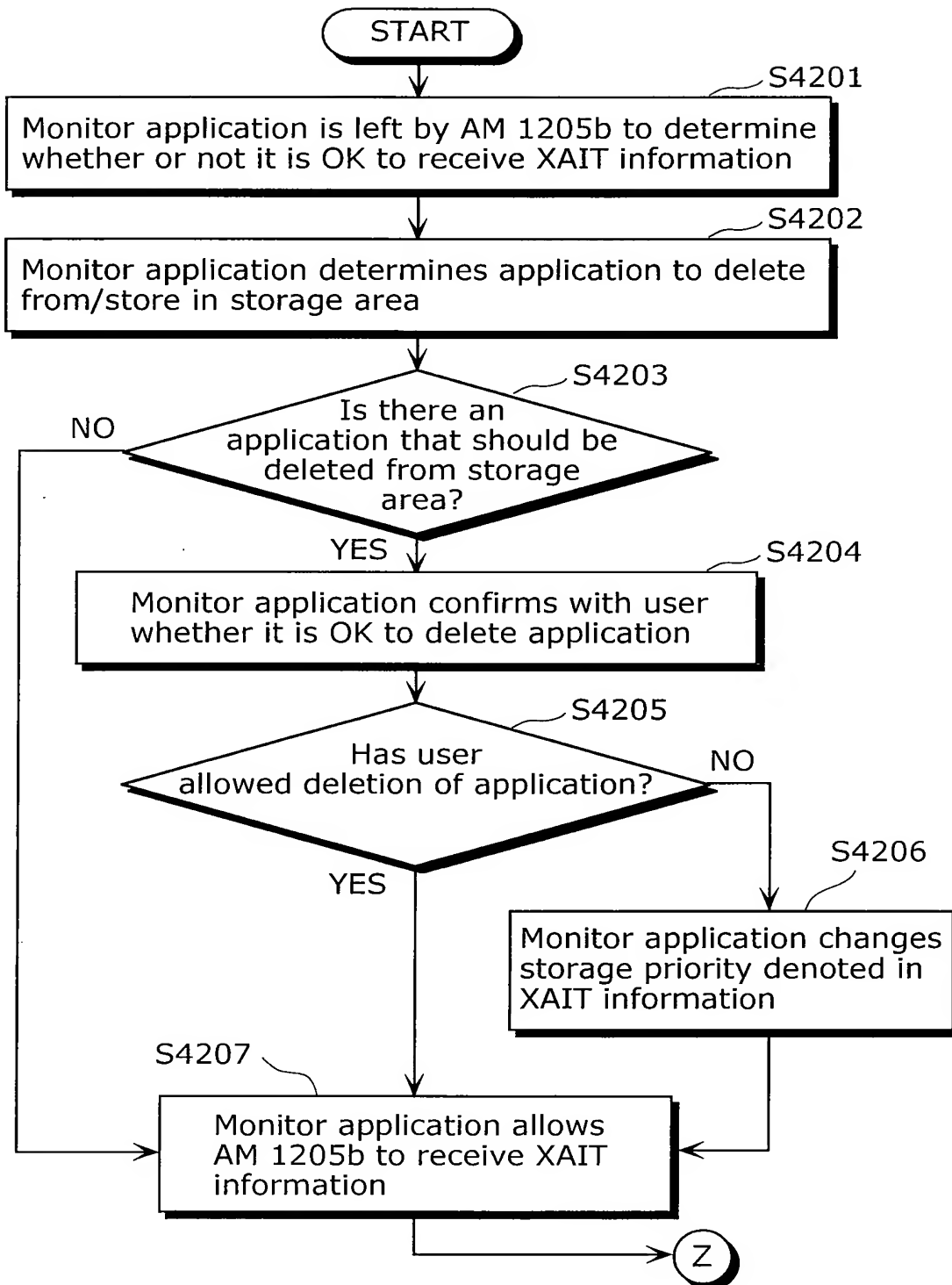


FIG. 45

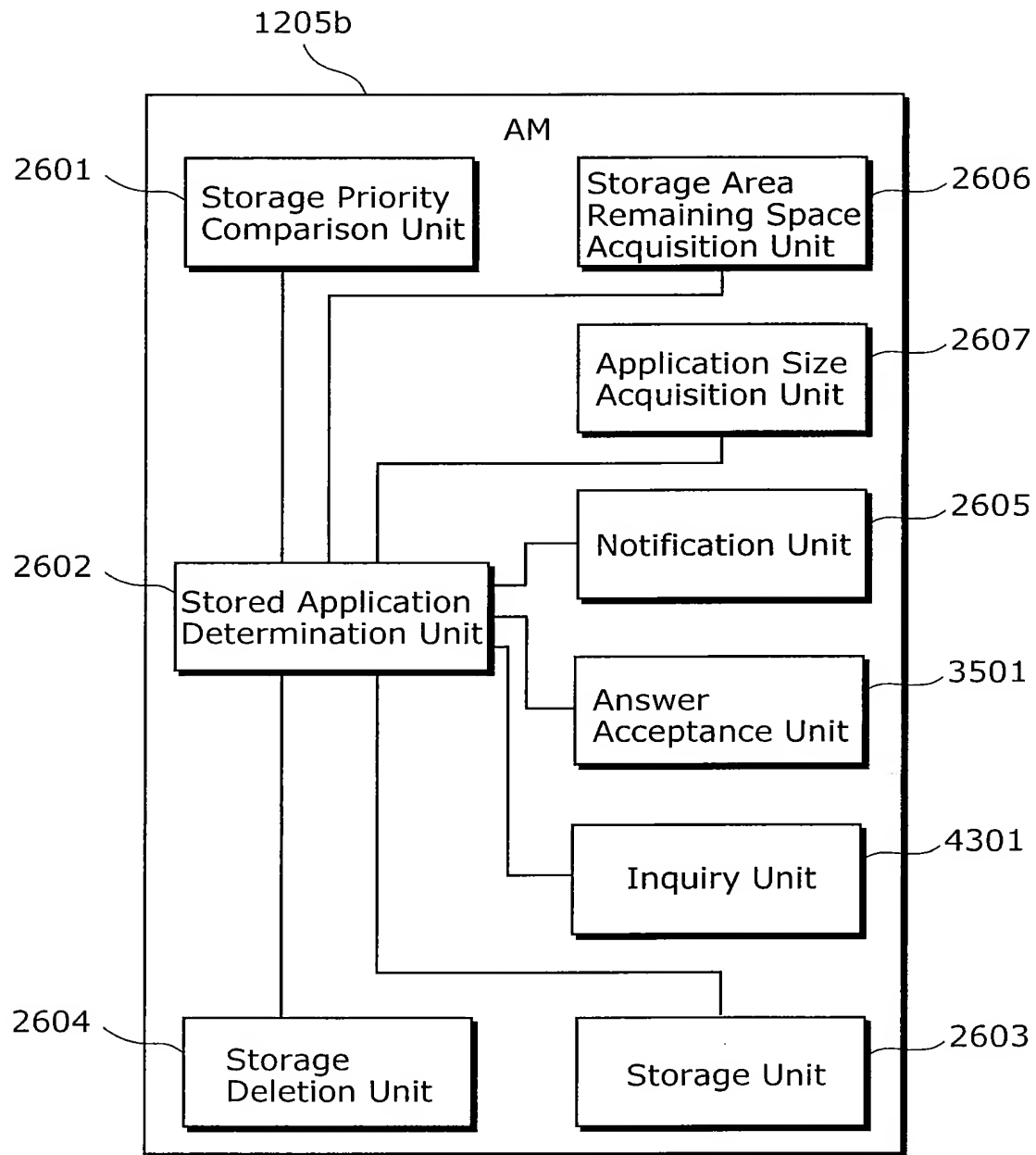


FIG. 46

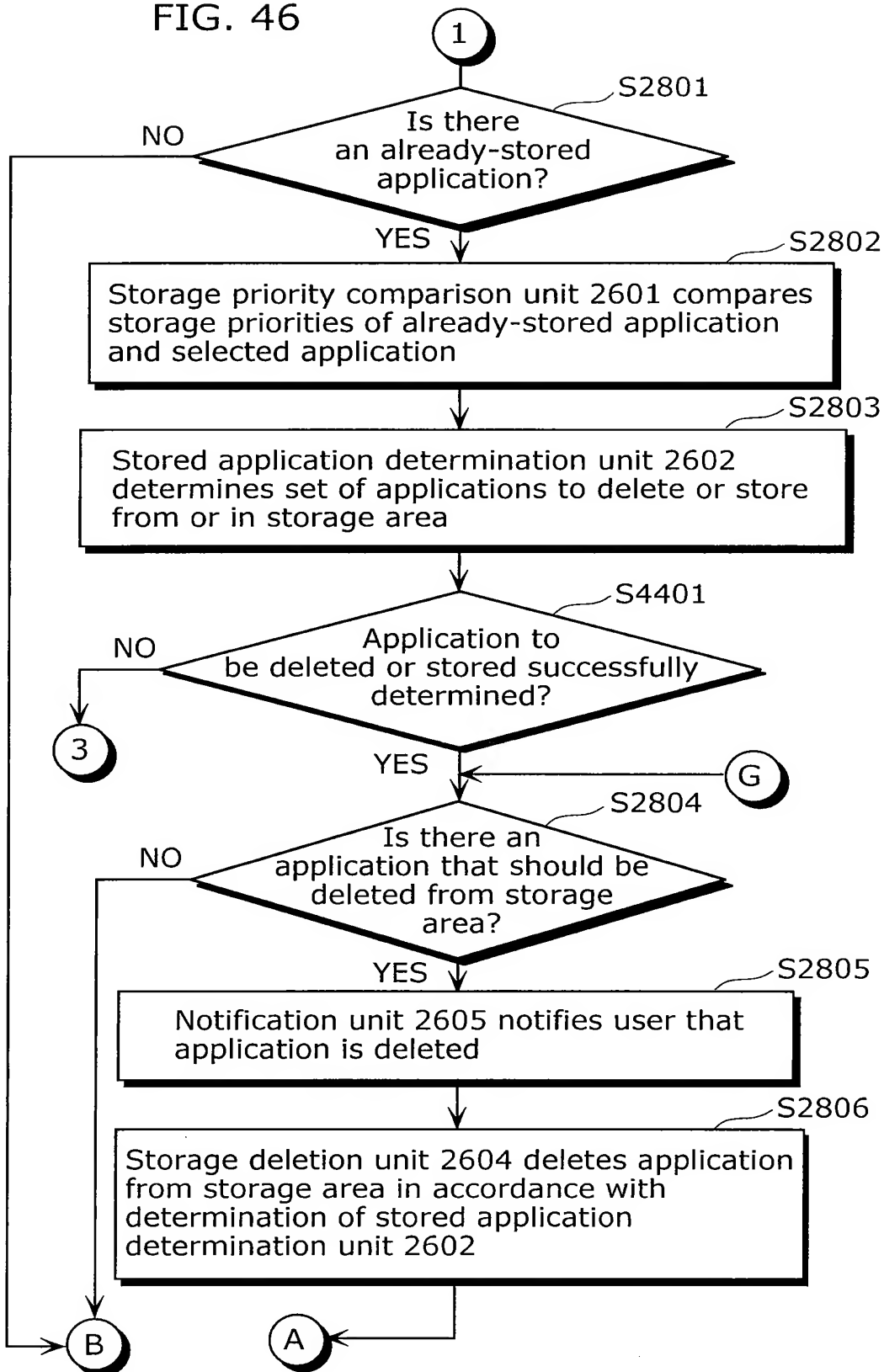


FIG. 47

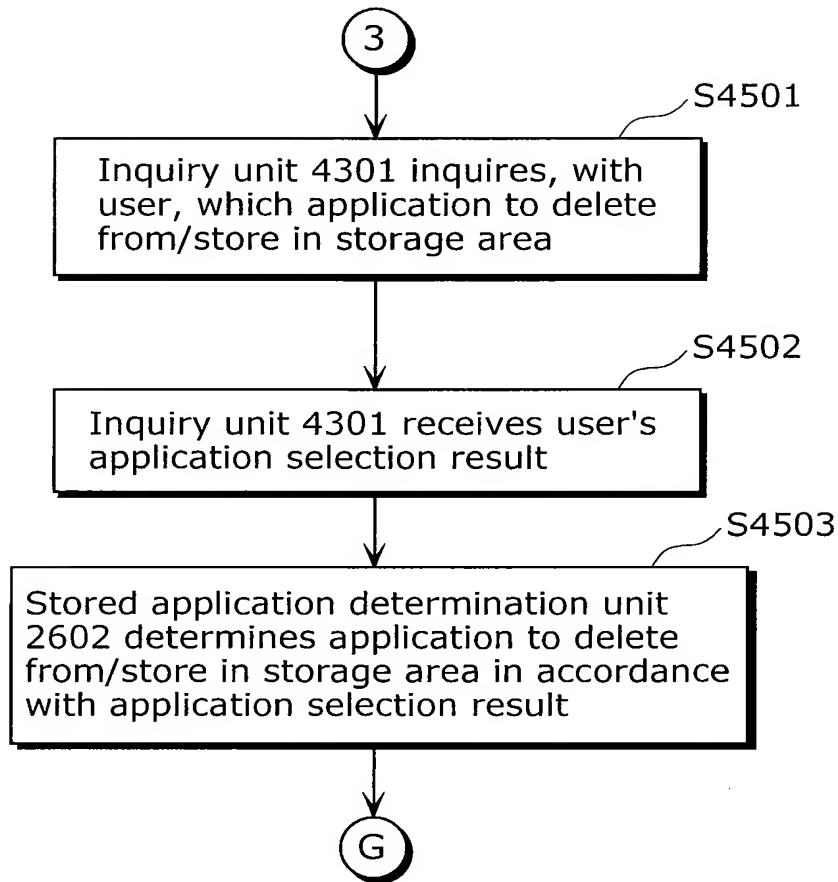


FIG. 48

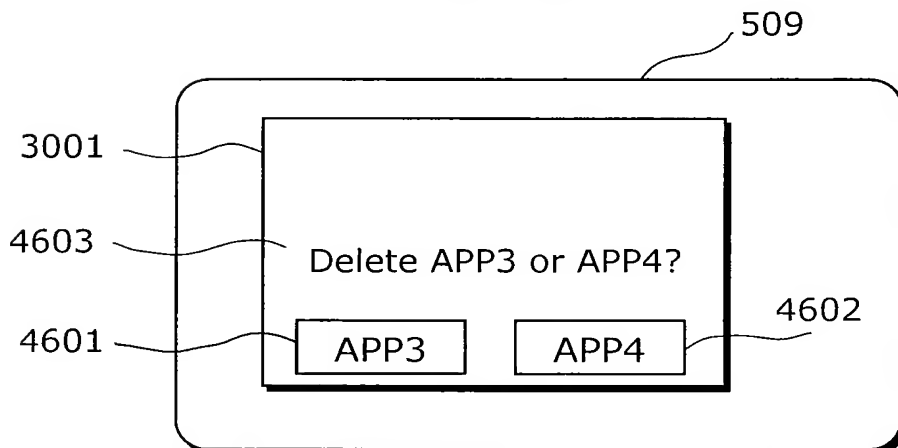


FIG. 49

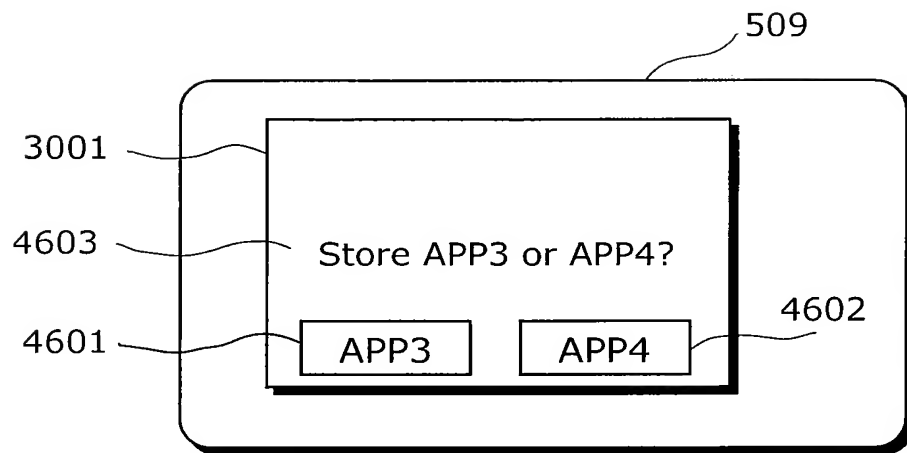


FIG. 50

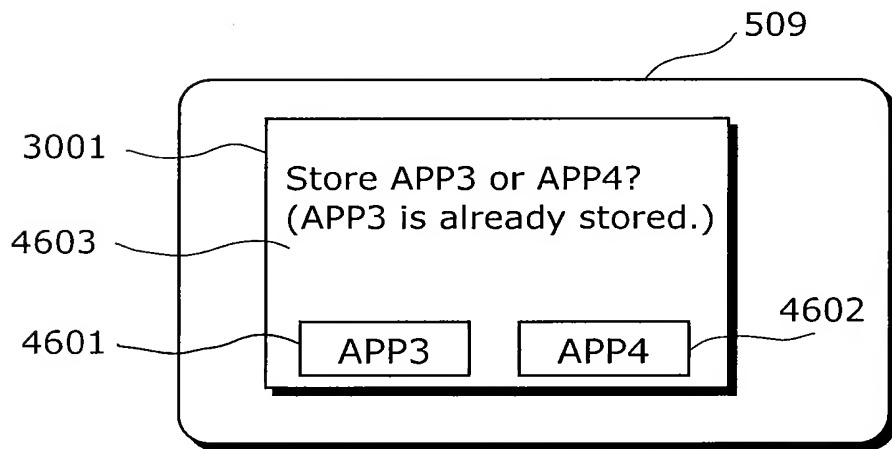




FIG. 51

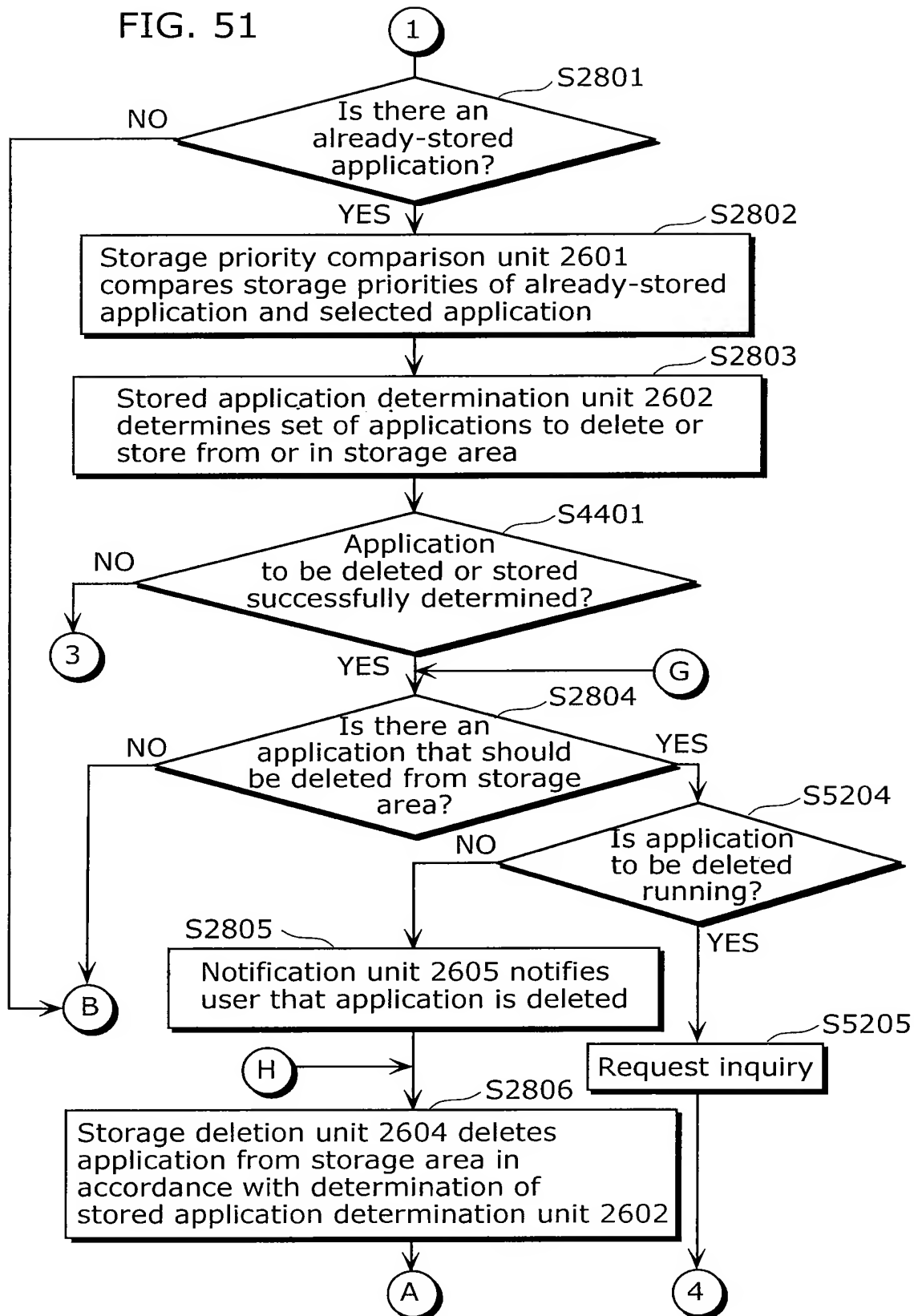


FIG. 52

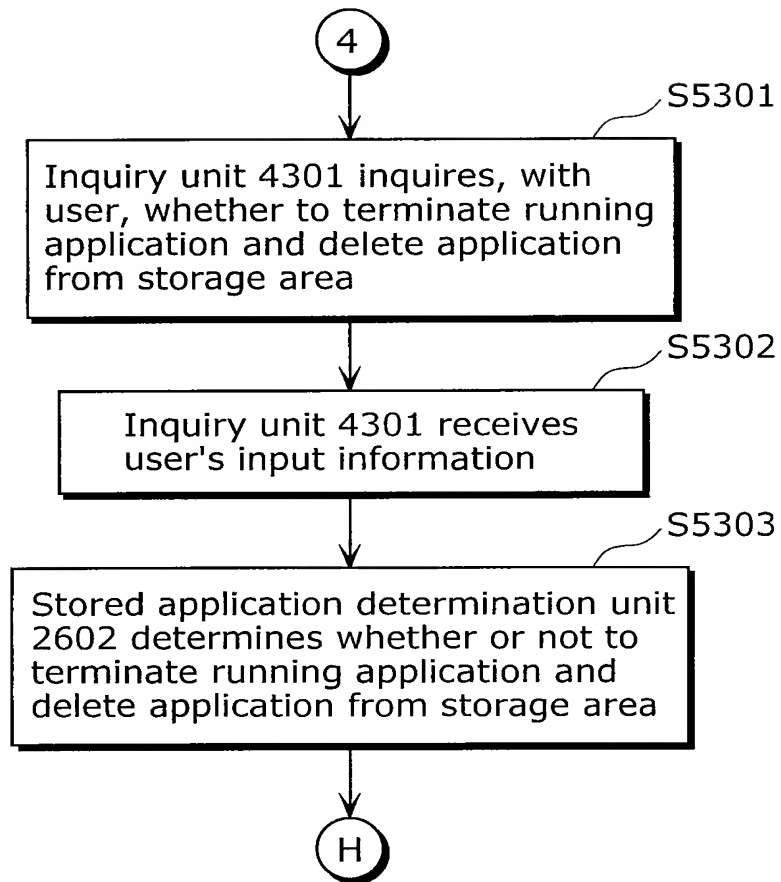


FIG. 53

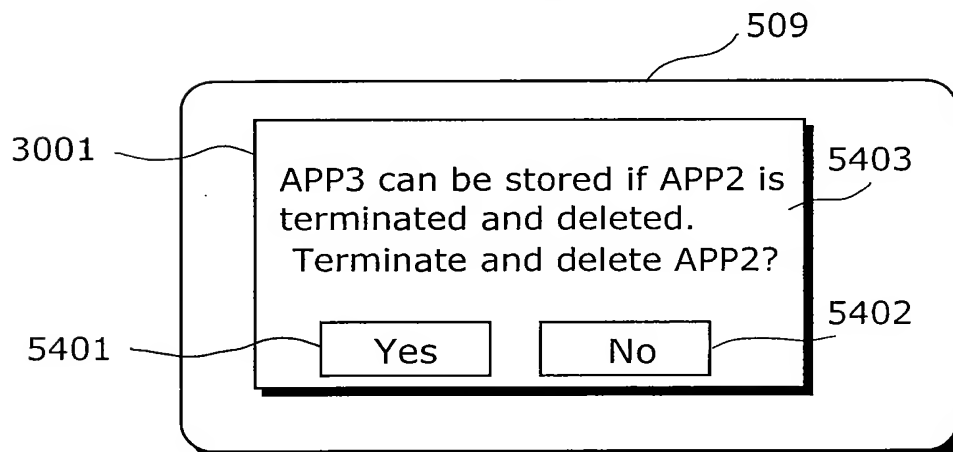


FIG. 54

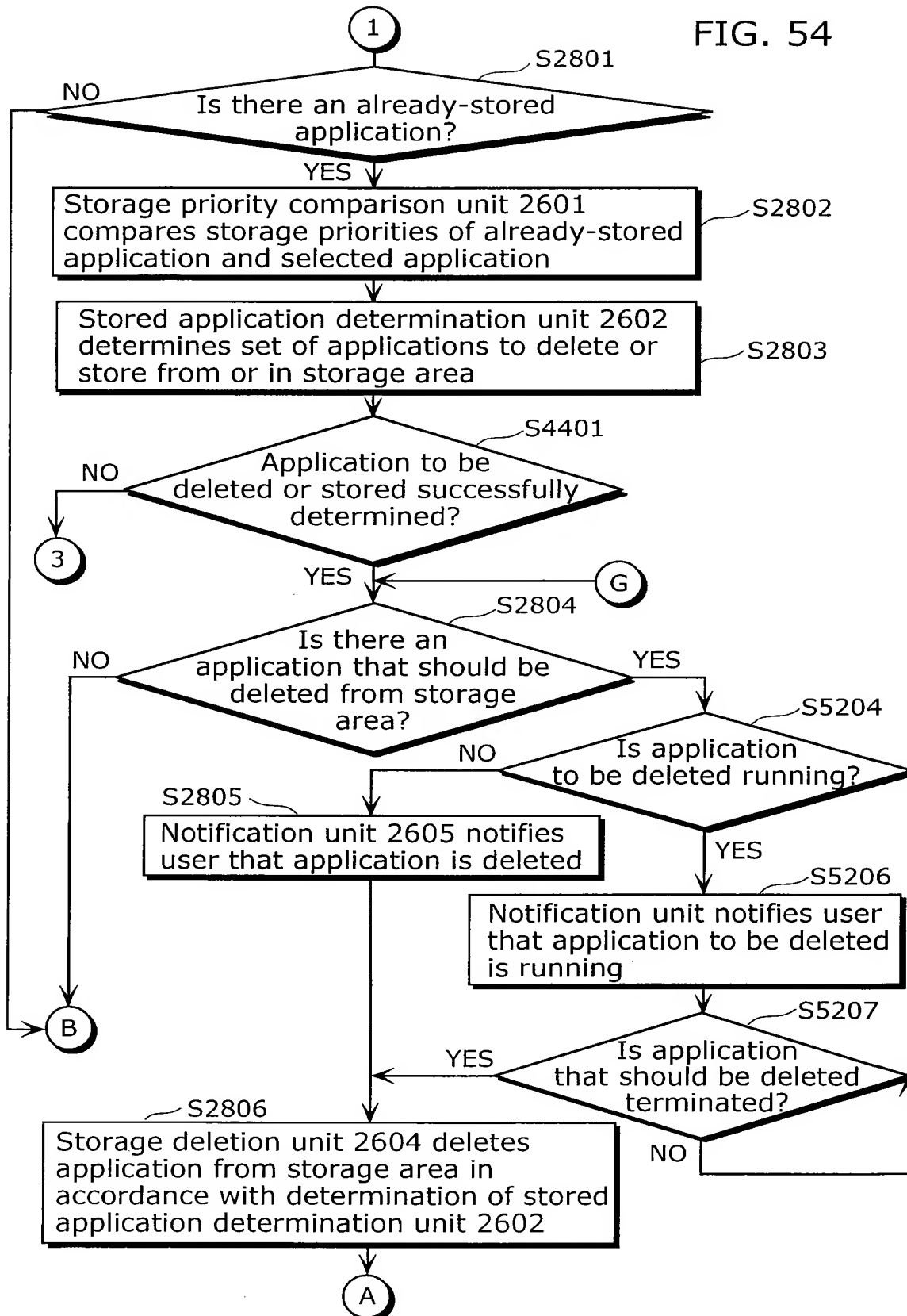


FIG. 55

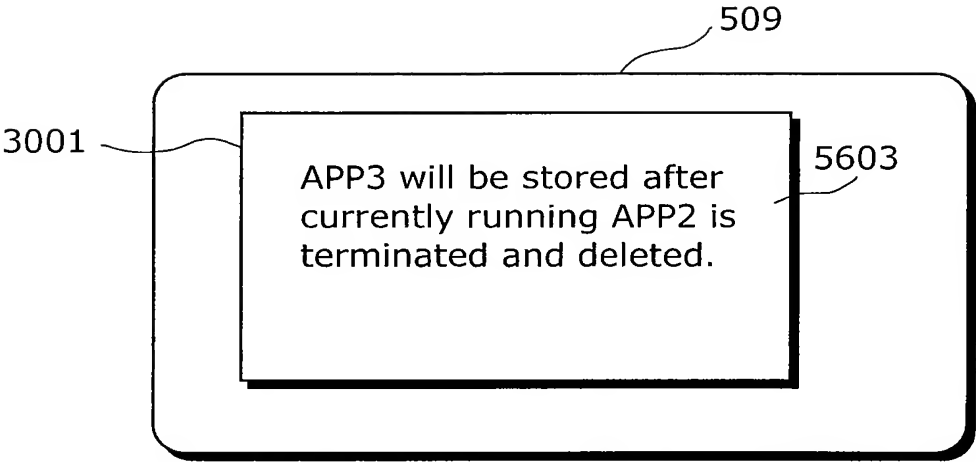


FIG. 56

	2001	2002	4901	4902	2004	2005	2006	2007
4911	701	auto start	http	123.456.0.1	/a /APP1Xlet	200	100	APP1
4912	702	pre sent	ftp	123.456.0.2	/b /APP2Xlet	201	200	APP2